

Water-Quality Monitoring of Sweetwater and Loveland Reservoirs, San Diego County, California—Phase One Results, 1998–1999

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U.S. GEOLOGICAL SURVEY

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CONVERSION FACTORS, VERTICAL DATUM, ABBREVIATIONS, AND ACRONYMS

Multiply	By	To obtain
centimeter (cm)	0.3937	inch
meter (m)	3.281	foot
kilometer (km)	0.6214	mile
square kilometer (km ²)	.3861	square mile

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8)^{\circ}\text{C} + 32$$

Sea level: In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Abbreviations and Acronyms

acre-ft, acre-foot
 Authority, Sweetwater Authority
 GC/MS, gas chromatography/mass spectrometry
 GFF, glass fiber filter
 g/m³, gram per cubic meter
 L, liter
 L/min, liter per minute
 LLR, Loveland Reservoir
 MCL, maximum contaminant level
 MDL, method detection limit
 mg, milligram
 mi, mile
 mm, millimeter
 NAWQA, National Water-Quality Assessment (Program)
 NWQL, National Water Quality Laboratory
 OC, organochlorine
 PAH, polynuclear aromatic hydrocarbon
 PCB, polychlorinated biphenyl
 PUF, polyurethane foam
 SOC, semivolatile organic chemical
 SR, State Route
 SWR, Sweetwater Reservoir
 USGS, U.S. Geological Survey
 URDS, urban runoff diversion system
 VOC, volatile organic compound

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ABSTRACT

In 1998, the U.S. Geological Survey began a study to assess the overall health of the watershed feeding the Sweetwater Reservoir in southern San Diego County, California. The study focussed on monitoring for organic chemical contamination and the effects of construction and operation of State Route 125 on water quality. Three environmental compartments (air, water, and bed sediments) are being sampled regularly for chemical contaminants, including volatile organic compounds, polynuclear aromatic hydrocarbons, polychlorinated biphenyls, pesticides, and major and trace elements. The study is divided into two phases. Phase I sampling is designed to establish baseline conditions for target compounds in terms of detection frequency and concentration in air, water, and bed sediments. Phase II sampling will continue at the established monitoring sites during and after construction of State Route 125 to assess chemical impact on water quality in the reservoir resulting from land-use changes and development in the watershed. This report describes the study design, the sampling and analytical methods, and presents the data results for the first year of the study, September 1998 to September 1999.

INTRODUCTION

The Sweetwater Authority (hereinafter referred to as the Authority), under the guidance of its Board of Directors, operates a public drinking water supply system for over 175,000 residential and commercial customers in Chula Vista, National City, and Bonita, California. The Sweetwater Reservoir (SWR) ([fig. 1](#)),

which has a storage capacity of 28,079 acre-ft (acre-foot) of water, is located about 15 km (kilometer) southeast of San Diego, California. The Authority also stores water at Loveland Reservoir (LLR), which has a storage capacity of 25,387 acre-ft and is located about 30 km east of SWR near Alpine, California. In addition to the two reservoirs, the Authority operates two deep wells in National City, California, and treats brackish ground water at the Lower Sweetwater River Basin Demineralization Facility in Chula Vista. Seventy percent of the water the Authority provides comes from local supplies that include the Sweetwater River, the Sweetwater alluvium, and the San Diego Groundwater Formation. The remaining water is imported from sources such as the Colorado River and the Sacramento/San Joaquin River systems through major aqueducts. Both local reservoir and imported waters are treated at the Robert A. Perdue treatment plant located at the SWR.

Currently, the SWR has no recreational activities. At LLR, only shore fishing is allowed in a restricted area at the east end of the reservoir. The Authority maintains one motorized boat at each reservoir for routine water sampling and regular shore patrols.

The Sweetwater River watershed covers 466 km² (square kilometer). Although much of the land is undeveloped, the area includes the Sycuan and Viejas Indian Reservations (both have gaming facilities), a part of the Cleveland National Forest, agricultural land, rural residential acreage, urban and suburban residential development, mining and industrial land use, commercial recreation, and commercial business development. The watershed currently includes three 18-hole golf courses; a fourth is being planned in conjunction with a new residential community. The Authority is very concerned about the impact that increasing growth and development in the Sweetwater

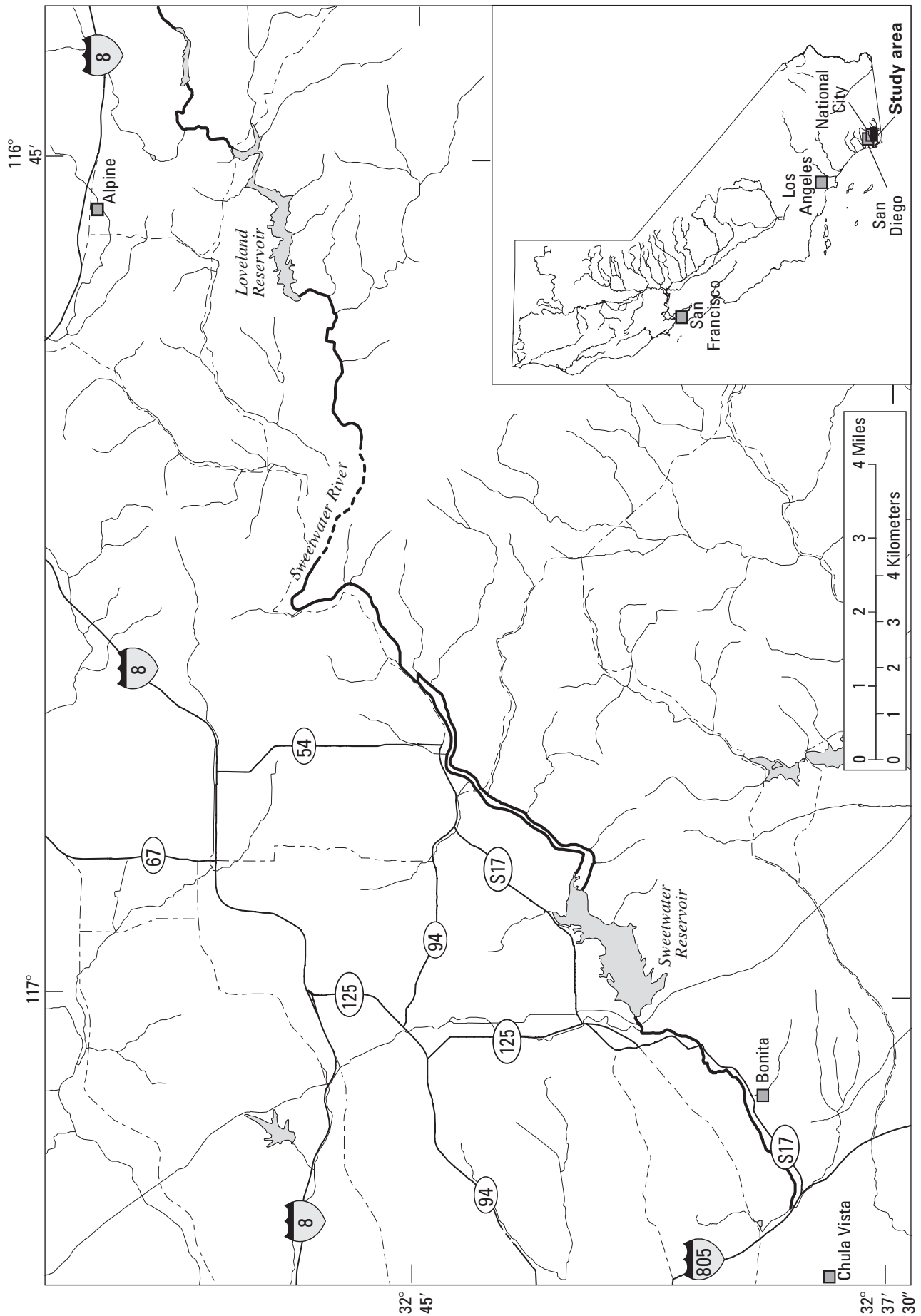


Figure 1. Sweetwater and Loveland Reservoirs and surrounding watershed, San Diego County, California.

River watershed will have on the quality of the drinking water supply and has initiated a variety of efforts to protect the watershed, including source assessments, watershed stakeholders outreach to identify issues, total organic carbon assessments, and the construction and operation of an urban runoff diversion system (URDS). These programs help the Authority evaluate the overall environmental health of the watershed by monitoring changes that can degrade the quality of the water supply and necessitate additional water treatment as the population increases and land use intensifies. The consequence of local inputs of anthropogenic compounds, such as organic chemicals and pesticides, on the watershed and reservoir water quality is largely unknown.

In addition to the increasing urbanization pressures within the watershed, another Authority concern, and the primary reason for this study, is the construction and operation of State Route (SR) 125. In 1984, the San Diego Association of Governments added SR-125 to the Regional Transportation Plan as part of San Diego's future highway system. The SR-125 project consists of approximately 18 km [11 mi (mile)] of roadway construction in one of three possible alignment configurations that extend from SR-54 (northern terminus) to Interstate 905 (southern terminus) (fig. 2). The project plans call for the initial construction of a four-lane highway that will be expanded to eight lanes (California Department of Transportation, 2001). More than 200,000 vehicles per day, including a high percentage (more than 10 percent) of heavy diesel trucks from both the United States and Mexico, are expected to travel SR-125. The alignment will be elevated about 30 m (meter) at its highest point, and the most likely construction scenario will bring SR-125 within 150 m of the reservoir at its nearest point. Because the SWR is downwind of all proposed alignments, the Authority became concerned that toxic vehicle emissions, as well as paved road dusts, might enter the reservoir by atmospheric deposition in concentrations that could affect public health and impact the cost of treating the drinking water supply.

In 1996 the Authority commissioned a study (Ogden Environmental and Energy Services, 1997) to model the atmospheric depositional loading to SWR of a variety of toxic compounds from vehicular fuel combustion emissions and any attendant health risks associated with the three SR-125 alignment scenarios. The predicted concentrations of select contaminants

were compared with the standards set by the California Safe Drinking Water Act (California Environmental Protection Agency, 1986) and to California and federal maximum contaminant levels (MCL). The results showed that drinking water guidance levels for one or more contaminants would be exceeded in all three alternative freeway construction options. Both the Authority and the U.S. Environmental Protection Agency Region IX concluded that the findings in Ogden report (Ogden Environmental and Energy Services, 1997) warranted the implementation of a monitoring program to measure the impact that atmospheric deposition of vehicular emissions from the operation of SR-125 may have on the quality of the drinking water stored in the SWR.

The Authority is assessing all factors that can affect water quality in the reservoir, as well as maintaining the highest environmental quality in the entire watershed. Responding to these concerns, the Authority initiated a monitoring study in cooperation with the U.S. Geological Survey (USGS).

This report assesses the chemical impact on water quality in the reservoir resulting from land use changes and development in the watershed. The scope of the study is to compare the analytical results of samples from three environmental media—air, water, and bed sediment—and determine whether any measured changes in reservoir water quality are the result of atmospheric deposition of organic chemicals and metals originating from the construction and operation of SR-125. Where applicable, the measured concentrations of select organic chemicals will be used as inputs to a mathematical model to assess future trends and impacts on the reservoir water quality.

STUDY DESIGN

The study design consists of two phases and includes sampling air, water, and bed sediments in each of them. Each of the environmental compartments in the Sweetwater watershed is being sampled and analyzed for those compounds expected to accumulate.

- Air—volatile organic compounds (VOC), polynuclear aromatic hydrocarbons (PAH), and pesticides.
- Water—VOCs and pesticides.
- Bed sediments—PAHs, total polychlorinated biphenyls (PCB), pesticides, and
- Major and trace elements.

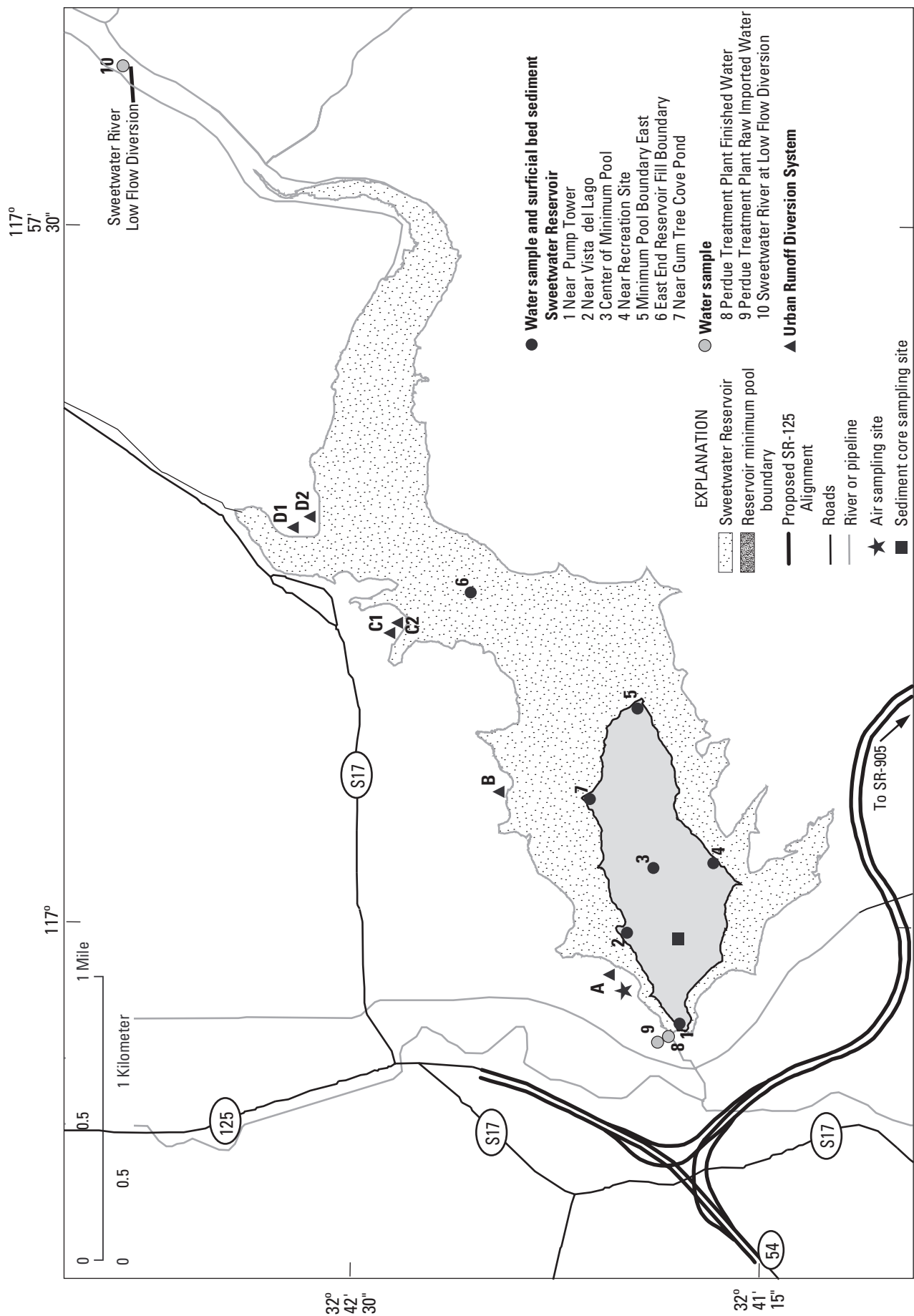


Figure 2. The most probable alignment of State Route 125 and Sweetwater Reservoir sampling sites, San Diego County, California.

To the extent possible, the sampling and analytical methods of the USGS National Water-Quality Assessment (NAWQA) Program are being used and the results entered into the USGS National Water Information System database.

During phase I, the water sampling sites were established at both SWR and LLR, the air sampling station was established at SWR, and regularly scheduled air and water sampling began. A one-time coring of the SWR bed sediments also was done along with an initial sampling of the surficial bed sediments at each of the reservoir water sampling sites and URDS ponds. The major objective of phase I is to determine the occurrence and concentration of select organic and inorganic contaminants in each of the three environmental media and to establish baseline conditions for the target analytes before construction of SR-125 begins.

Phase II sampling will begin with the construction of SR-125. Air, water, and surficial bed sediment monitoring will continue at the established sites during and after the construction of SR-125. A second air sampling station may be installed to monitor airborne anthropogenic compounds originating from areas upwind of the SR-125 alignment. The analytical results from the phase II monitoring will be compared with those from phase I to assess the impact of SR-125 on water quality in SWR. Phase II monitoring also will assess the continuing inputs of anthropogenic organic compounds resulting from the land-use practices in the watershed.

A computer modeling program (LakeVOC) will be used to estimate the air–water partitioning behavior for select VOCs detected in the air and water at SWR. The model is not restricted to estimating VOC partitioning behavior. It also can be used to estimate the partitioning behavior of semivolatile organic chemicals (SOC) such as PAHs and pesticides.

SITE SELECTION AND SAMPLING STRATEGY

Water Sampling

Seven water-sampling sites have been established in SWR ([fig. 2](#)) and two in LLR ([fig. 3](#)). All the sites within SWR, with the exception of site 6, are within the reservoir’s minimum fill boundary to ensure that water will be available for sampling throughout the

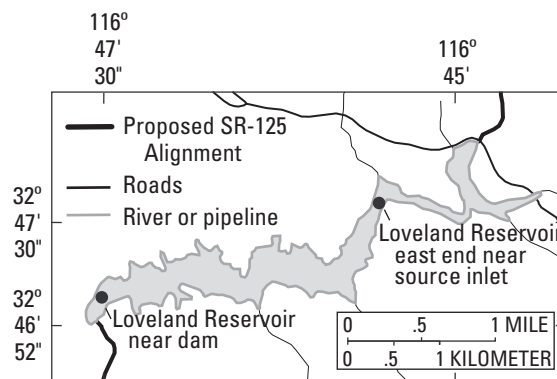


Figure 3. Loveland Reservoir sampling sites, San Diego County, California.

year. Site 6 is located at the eastern end of the reservoir in very shallow water. As the reservoir water level falls, the water depth at this site decreases and sometimes the bed sediments are completely exposed. When this happens, the sampling site is moved to a location where the water depth is at least 1 m deep. The water sampling sites at LLR are located near the discharge point at the dam and near the Sweetwater River inflow at the east end of the reservoir. Sampling sites at both SWR and LLR are all marked with stationery buoys anchored to the bottom.

Three additional water-sampling sites ([fig. 2](#)) have been established outside the reservoir boundaries. The first site monitors the quality of the ‘finished’ water as it leaves the treatment plant for distribution to customers. The second site monitors the quality of the imported water before it enters the treatment plant. The third site, the Sweetwater River at the Low-Flow Diversion, monitors the quality of the watershed drainage water entering SWR. In most cases, imported water is pumped directly into the treatment plant; however, imported water is occasionally pumped directly into SWR to augment the local supply. When imported water is pumped directly into the reservoir, it significantly increases the water level, and volume increases on the order of tens of thousands of acre-feet. Imported water is never used to maintain the minimum pool level. All the sampling site names and identification numbers are given in [table 1](#).

Baseline water sampling at both SWR and LLR began in September 1998 and continued at 2-month intervals through September 1999. This bimonthly sampling allowed monitoring of various operational

Table 1. Site identification numbers, site numbers, and corresponding site names, Sweetwater and Loveland Reservoirs, San Diego County, California

[See figure 2 for site locations. QA, quality assurance; QC, quality control. *, Loveland Reservoir sites on figure 3]

Site identification number	Site number	Site name
324130117002501	1	Sweetwater Reservoir near pump tower
324139117000801	2	Sweetwater Reservoir near Vista del Lago station
324131117000101	3	Sweetwater Reservoir center of minimum pool
324126116595701	4	Sweetwater Reservoir near recreation area
324137116592401	5	Sweetwater Reservoir minimum pool boundary East
324209116585001	6	Sweetwater Reservoir east end reservoir fill boundary
324147116593501	7	Sweetwater Reservoir near Gum Tree Cove Pond
324703116473101*		Loveland Reservoir near dam
324737116453501*		Loveland Reservoir east end near source inlet
324311116565901	10	Sweetwater River at low flow diversion at Sweetwater Reservoir
324132117002701	8	Perdue Treatment Plant—finished water at Sweetwater Reservoir
324137117002901	9	Perdue Treatment Plant—imported raw water at Sweetwater Reservoir
¹ 88888801		QC/QA site for Sacramento Project Office, California
² 324141117001601		Sweetwater Reservoir air sampling site

¹Quality control identification number.

²Air sampling date located on figure 2.

modes of the reservoirs, such as recharge or drawdown events that significantly changed the water level in reservoirs. Before any reservoir water is sampled, depth profiles of temperature, pH, dissolved oxygen, and specific conductance are measured at 1 m intervals from the surface to the bottom at each sampling location (table 2, at back of report). At LLR, the depth profile measurements below 10 m are taken every 2 m because LLR is much deeper than SWR. If the temperature depth profile shows the presence of a thermocline, two sets of water samples are collected at the site—one at midepilimnion and one at midhypolimnion. If no thermocline is evident, only one sample set is collected at a point midway between the water surface and the reservoir bottom.

Water samples for both pesticide and VOC analyses are collected using a 1.2 L (liter) Teflon Kemmerer sampler (Wildco, Saginaw, Mich.). Procedures for collecting and processing water samples for dissolved pesticide and VOC determinations are based on protocols used by the NAWQA Program (Shelton, 1994, 1997). Samples from the Low-Flow Diversion Dam are grab samples collected by submerging the sample bottle, removing the cap, filling the bottle, and recapping the bottle while still submerged. The finished and imported water samples are collected from spigots located at the distribution points. The water lines are flushed for 5 minutes before the sample bottles are filled.

Air Sampling

Air sampling at site 1 (fig. 2) began operation in March 1999. The site is wired for AC power (120 volts), equipped with telephone modem access, and secured from the general public by a 2-m-high chain-link fence. The data collected at this station is establishing the occurrence, temporal patterns, and ambient levels of selected airborne organic compounds (VOCs, PAHs, and pesticides). This site was installed downwind of the proposed SR-125 routes and upwind of SWR (fig. 2) along a transect of the predominant wind direction. The site includes a fully instrumented meteorological station that records hourly averages of wind speed and direction, ambient air temperature and relative humidity at two heights, rainfall, barometric pressure, and atmospheric stability. The general considerations for establishing this air sampling station followed the guidelines outlined by the National Atmospheric Deposition Program (Bigelow, 1984).

The first VOC air sample was collected on March 23, 1999. The sampling methods are described in detail by Pankow and others (1998) and will only be briefly discussed. Ambient, gas phase atmospheric VOC concentrations are monitored using two programmable low-volume air sampling pumps (224-PCXR8, SKC Inc., Eight Four, Pa.). One sampling pump pulls about 1.5 L of air through a glass cartridge containing 50 mg (milligram) of Carbotrap B in series with 280 mg of

Carboxen 1000 (Supelco Inc., Bellefonte, Pa.). This sample is analyzed for chlorofluorocarbons and other compounds with low breakthrough volumes. The second pump pulls about 5 L of air through a glass cartridge containing 180 mg of Carbotrap B in series with 70 mg of Carboxen 1000 (Supelco Inc., Bellefonte, Pa.). This sample is analyzed for the remaining VOC analytes. Each sample is a 24-hour composite collected every 12th day. The timing of the VOC sample collection is coordinated with the California Air Resources Board Air Toxics Program.

The first PAH, total PCB, and pesticide air sample was collected during the week of May 11, 1999. Both the gas and particle phases are monitored using a high-volume air sampler that pulls air through a 90-mm (millimeter)-diameter glass fiber filter (GFF), which collects the particle phase samples, and a primary and a secondary [4.45 cm (centimeter) diameter \times 7.62 cm each; average density = 0.043 g/m⁻³ (gram per cubic meter)] polyurethane foam (PUF) plugs, which collect the gas phase samples. Both the GFF and PUFs are contained in Teflon cartridges. The flow rates are maintained at approximately 100 L/min (liter per minute) using a high-volume vacuum pump (Graseby-GMW, Village of Cleves, Ohio). Each sample is a 24-hour/7-day weekly composite taken every third week. Air samples at LLR are not collected because its foothill location (30 km east of SWR) is considered sufficiently downwind of SR-125 to be minimally impacted by any airborne contaminants originating from it.

Bed Sediment Sampling

Sediment sampling included a one-time coring of SWR bed sediments and an annual sampling of the surficial bed sediments at each water sampling site at both SWR and LLR. The bed sediment sampling and coring was in collaboration with the research group of Dr. Peter Van Metre, USGS, Austin, Tex., and Dr. Edward Callender, USGS, Reston, Va. Sediment core samples, when analyzed for specific organic chemicals and trace elements, can assist in documenting the history of land use and water-quality trends in a study area (Van Metre and Callender, 1997).

Sediment Core Sampling

Bed sediment core samples were collected using a Benthos gravity piston corer fitted with a plastic barrel (Van Metre and Callender, 1997). Two sediment cores (about 188 cm length \times 6.5 cm diameter) were collected from the lower part of SWR in the paleo-channel of the Sweetwater River on September 24, 1998. The sampling site was located sufficiently far from past aeration activities near the Sweetwater Dam so the core would reflect the undisturbed, natural sedimentation rate of the reservoir. One core was subsampled at 4-cm intervals for chemical analysis. The second core was split lengthwise and inspected for color, texture, odor, the presence of organic detritus and benthic invertebrates, and prereservoir land-surface identification.

Surficial Bed Sediment Sampling

Surficial bed sediment samples were collected using a 15 \times 15 \times 15 cm Ekman grab sampler (Wildco, Saginaw, Mich.) at the seven established water sampling sites in SWR on September 9 1998, and at both LLR water sampling sites on September 10, 1999. Each of the four URDS ponds adjacent to SWR ([fig. 2](#)) also was sampled on November 5, 1998. The top 1 cm from each of these samples was subsampled for analysis.

ANALYTICAL METHODS

Water

Each water sample was analyzed at the USGS National Water Quality Laboratory (NWQL). Analyses for 87 VOCs used capillary-column gas chromatography/mass spectrometry (GC/MS) with full-scan ion monitoring, described by Connor and others (1998). The results for the VOC water analyses are given in [table 3](#) (at back of report). The pesticide analyses used the method described by Zaugg and others (1995) and analyzes for 43 pesticides and 4 pesticide transformation products. This method uses capillary-column GC/MS with selected-scan ion monitoring. The results for the pesticide water analyses are given in [table 4](#) (at back of report).

Air

The air sampling methods for VOCs, PAHs, and pesticides used in this monitoring program have no published USGS protocols and, as such, are considered experimental. The air sampling techniques, however, are based on established methods that have been successfully used by other research groups. They have also been used in several USGS studies that investigated occurrence and distribution of VOCs (Baehr and others, 1999a,b; Bender and others, 2000) and pesticides (Majewski and others, 1998; Foreman and others, 2000) in the atmosphere.

The low-volume VOC air sampling and analytical methods were developed by the research group of Dr. James Pankow at Oregon Graduate Institute, Beaverton, Oregon (Pankow and others, 1998) in conjunction with the USGS. Air VOC analyses were done by Dr. Pankow's research group. The VOC air samples were analyzed by adsorption/thermal desorption GC/MS. The method included 87 VOCs that ranged in volatility from CFC-12 to 1,2,3-trichlorobenzene. Method detection limits (MDL) for the analytes ranged from 0.02 to 0.06 parts per billion by volume. The results for the VOC air analyses are given in tables [5A](#) and [5B](#) (at back of report).

The high-volume PAH and pesticide air samples are analyzed using a modified version of established NWQL analytical methods. The analytical method for the PAHs in the gas and particle phases, which determines 32 PAH compounds and related isomers, was developed for this study by the NWQL Methods Development Group (Foreman and others, 1995). The pesticide method is based on the method used to analyze the water samples (Zaugg and others, 1995) and includes the same compounds, but omits desethyl atrazine, and adds desisopropylatrazine. The sampling and analytical methods for both the PAH and pesticide air samples have been used in several specialized studies undertaken by the USGS (Foreman and others, 1997, 2000; Majewski and others, 1998) and are similar to established procedures currently used by the NAWQA Program. PAH air analyses are not included in this report because they have not been completed. Analytical results for pesticides in air are given in [table 6](#) (at back of report).

Sediment

The surficial bed sediment and core samples were all analyzed for the organic constituents at the NWQL using the same custom method. This modified USGS method (Furlong and others, 1996) analyzes for 22 parent PAHs, 10 specific alkyl-PAH isomers, homologous series of 25 alkyl-PAH isomers, total PCBs, and 16 organochlorine (OC) insecticides. Every other sediment core segment to a depth of 72 cm was analyzed; thereafter, every third segment was analyzed. The results for the PAH core, surficial bed sediment, and URDS sample analyses are given in [table 7](#) (at back of report); OC results for the same samples are given in [table 8](#) (at back of report). Major and trace elements analyses for each surficial bed sediment and core sample were done by Dr. E. Callender (USGS National Research Program) using methods described in Lichte and others (1987) and Briggs (1990). Every other sediment core segment to a depth of 188 cm was analyzed, and the results are given in [table 9](#) (at back of report). The cesium-137 age determinations are given in [table 10](#) (at back of report). [Table 11](#) (at back of report) contains the description of the visual analysis of the core content, color, and texture.

QUALITY CONTROL

Sampling

Three types of water sampling quality control were used in this study: blanks, spikes, and replicates. Blanks and spikes estimate result bias, and replicates estimate result variability. Equipment blanks demonstrate that the equipment cleaning procedures, sample collection procedures, and the sample processing equipment are not contaminating environmental samples. Equipment blanks are collected annually by processing USGS laboratory certified water, known to be free of the analytes of interest, through all of the cleaned sampling and processing equipment.

Field blanks are collected to demonstrate that the sampling equipment is adequately cleaned between environmental sampling sites. The field blank is collected at an environmental sampling location by processing USGS laboratory certified water, known to be free of the analytes of interest, through all field cleaned sampling equipment. A spike is an

environmental sample that is fortified with a known concentration of selected analytes. Spiked samples are used to measure bias in analyte degradation, analyte recovery, or to test the effects of various sampling matrices on the analyses of specific constituent groups. Replicate samples are collected and processed identically to the environmental sample and used to measure the variability during sample processing and analysis (Mueller and others, 1997). At least one quality-control sample is collected during every sampling campaign. The type of quality-control sample collected and the sampling location are chosen randomly. The blank, spike, and replicate quality-control data for the VOCs and pesticides in the water samples are included in [tables 12 and 13](#) (at back of report), respectively, and for the PAHs and OCs in the surficial bed sediment samples in [tables 14 and 15](#) (at back of report), respectively.

Analytical

Quality of analytical results is monitored by adding surrogate compounds to each sample before it is processed for analysis. These surrogate compounds are added at the NWQL to monitor sample preparation and analysis. For water samples, 1,2-dichloroethane-*d*₁₀, toluene-*d*₈, and 1,4-bromofluorobenzene are added to each VOC sample, and diazinon-*d*₆ and alpha-HCH-*d*₆ are added to each pesticide sample. The results, in percentage recovery, for each water analysis are given in [tables 3 and 4](#), respectively.

The air samples use a slightly different method for assessing the analytical method efficiency. Each VOC air sample collected has an associated travel blank, travel spike, and lab blank analyzed along with it (Wentai Luo, Oregon Graduate Institute, unpub. data, 1999). Each SOC air sample is comprised of a GFF and a PUF extract, and these extracts are analyzed at the NWQL for two different classes of compounds. A mixture of five surrogate compounds was added to each sample prior to extraction. For PAH analysis, nitrobenzene-*d*₅, 2-fluorobiphenyl, and terphenyl-*d*₁₄ are the surrogates; for pesticide analysis, diazinon-*d*₁₀ and alpha-HCH-*d*₆ are the surrogates. The surrogate results, in percentage recovery, for the pesticide air sample analysis are given in [table 6](#).

The quality of the bed sediment analyses was monitored using blank and spiked sample analyses, and by adding a mixture of five surrogate compounds to

each sample prior to extraction. The compounds nitrobenzene-*d*₅, 2-fluorobiphenyl, and terphenyl-*d*₁₄ were the surrogates monitored during the PAH analyses; nonachloro-biphenyl and alpha-HCH-*d*₆ were the surrogates monitored during the OC analyses. The results, in percentage recovery, for the PAH surrogates are given in [table 7](#), and the OC pesticide surrogate results, in percentage recovery, are given in [table 8](#).

REFERENCES CITED

- Baehr, A.L., Kauffman, L.J., Charles, E.G., Baker, R.J., Stackelberg, P.E., Ayers, M.A., and Zapetza, O.S., 1999a, Sampling throughout the hydrologic cycle to characterize sources of volatile organic compounds in ground water, *in* Morganwalp, D.W., and Buxton, H.T., eds., *Subsurface contamination from point sources*, v. 3 of U.S. Geological Survey Toxic Substances Hydrology Program—Proceedings of the technical meeting, Charleston, South Carolina, March 8–12, 1999: U.S. Geological Survey Water-Resources Investigations Report 99-4018C, p. 21–36.
- Baehr, A.L., Stackelberg, P.E., and Baker, R.J., 1999b, Evaluation of the atmosphere as a source of volatile organic compounds in shallow groundwater: *Water Resources Research*, v. 35, no. 1, p. 127–136.
- Bender, D.A., Zogorski, J.S., Luo, Wentai., Pankow, J.F., Majewski, M.S., and Baker, R.J., 2000, Atmospheric-water interaction of chloroform, toluene, and MTBE in small perennial urban streams, *in* proceedings of the 93rd Annual Air and Waste Management Association Conference, Salt Lake City, UT.
- Bigelow, D.S., 1984, Instruction manual: NADP/NTN Site Selection and Installation: Fort Collins, Colo., Colorado State University, Natural Resource Ecology Laboratory, variously paged [available from NADP Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign IL 61820-7495].
- Briggs, P., 1990, Elemental analysis of geological material by inductively coupled plasma-atomic emission spectrometry, *in* Arbogast, B.F., ed., *Quality assurance manual for the branch of geochemistry*: U.S. Geological Survey Open-File Report 90-668, 184 p.
- California Environmental Protection Agency, 1986, California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Health and Safety Code, division 20, chap. 6.6, sect. 25249.5 through 25249.13.
- California Department of Transportation, 2001, State Route 125 (From SR-905 to State Route 54): District 11 Fact Sheet, accessed December 14, 2001, at URL <<http://www.dot.ca.gov/dist11/facts/125toll.htm>>.

- Connor, B.F., Rose, D.L., Noriega, M.C., Murtagh, L.K., and Abney, S.R., 1998, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of 86 volatile organic compounds in water by gas chromatography/mass spectrometry, including detections less than reporting limits: U.S. Geological Survey Open-File Report 97-829, 78 p.
- Foreman, W.T., Connor, B.F., Furlong, E.T., Vaught, D.G., and Merten, L.M., 1995, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of organochlorine pesticides and polychlorinated biphenyls in bottom sediment by dual capillary-column gas chromatography with electron-capture detection: Open-File Report 95-0140, 78 p.
- Foreman, W.T., Goolsby, D.A., Majewski, M.S., Wiebe, F.W., and Battaglin, W.A., 1997, Acetochlor and other herbicides in air and rain in the Midwestern United States [abs.], in *Bridging the global environment: Technology, communication, and education: Society of Environmental Toxicology and Chemistry Annual Meeting*, 18th, San Francisco, Calif., November 16–20, 1997, Abstract Book, no. 229, p. 45.
- Foreman, W.T., Majewski, M.S., Goolsby, D.A., Wiebe, F.W., and Coupe, R.H., 2000, Pesticides in the atmosphere of the Mississippi River Valley, Part II—Air: *Science of the Total Environment*, v. 248, no. 2–3, p. 213–226.
- Furlong, E. T., Vaught, D. G., Merten, L. M., Foreman, W. T., and Gates, P. M., 1996, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of semivolatile organic compounds in bottom sediment by solvent extraction, gel permeation chromatographic fractionation, and capillary-column gas chromatography/mass spectrometry: Open-File Report 95-0719, 67 p.
- Lichte, F.E., Golightly, D.W., and Lamothe, O.J., 1987, Inductively coupled plasma-atomic emission spectrometry, in Baedecker, P.A., ed., *Methods for geochemical analysis: U.S. Geological Survey Bulletin* 1770, p. B1-B10.
- Majewski, M.S., Foreman, W.T., Goolsby, D.A., and Nakagaki, Naomi, 1998, Airborne pesticide residues along the Mississippi River: *Environmental Science and Technology*, v. 32, no. 23, p. 3689–3698.
- Mueller, D.K., Martin, J.D., and Lopes, T.J., 1997, Quality-control design for surface-water sampling in the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 97-223, 17 p.
- Ogden Environmental and Energy Services, 1997, SR-125 South route alternatives: Potential air emissions impact on Sweetwater Reservoir: San Diego, Calif. [available from Sweetwater Authority, 505 Garrett Avenue, Chula Vista, CA 92912].
- Pankow, J.F., Luo, Wentai, Isabelle, L.M., Bender, D.A., and Baker, R.J., 1998, Determination of a wide range of volatile organic compounds in ambient air using multisorbent adsorption/thermal desorption and gas chromatography/mass spectrometry: *Analytical Chemistry*, v. 70, no. 24, p. 5213–5221.
- Shelton, L.R., 1994, Field guide for collecting and processing stream-water samples for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-455, 42 p.
- , 1997, Field guide for collecting samples for analysis of volatile organic compounds in stream water for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 97-401, 14 p.
- Van Metre, P.C., and Callender, Edward, 1997, Water-quality trends in White Rock Creek Basin from 1912–1994 identified using sediment cores from White Rock Lake reservoir, Dallas, Texas: *Journal of Paleolimnology*, v. 17, p. 239.
- Zaugg, S.D., Sandstrom, M.W., Smith, S.G., and Fehlberg, K.M., 1995, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of pesticides in water by C-18 solid-phase extraction and capillary-column gas chromatography/mass spectrometry with selected-ion monitoring: U.S. Geological Survey Open-File Report 95-181, 49 p.

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California

[Time is denoted in 24-hour scale. PCODE, parameter code; m, meter; mg/L, milligram per liter; $\mu\text{S}/\text{cm}$, microsiemen per centimeter; $^{\circ}\text{C}$, degree Celsius; —, no data]

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance (μS/cm)	Water temperature (°C)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
Sweetwater Reservoir near pump tower:						
September 9, 1998	1525	1.0	6.9	8.3	783	26.8
	1526	2.0	7.0	8.4	783	26.6
	1527	3.0	6.3	8.3	785	26.4
	1528	4.0	4.5	8.0	783	26.0
	1529	5.0	0.8	7.6	772	25.3
	1530	6.0	0.2	7.5	749	23.1
	1531	7.0	0.1	7.4	746	22.5
	1532	8.0	0.1	7.3	738	21.5
	1533	9.0	0.1	7.3	741	20.6
	1534	10.0	0.1	7.3	749	19.2
	1535	11.0	0.1	7.3	763	18.0
	1536	12.0	0.1	7.3	770	17.7
	1537	13.0	0.1	7.2	775	17.6
	1538	14.0	0.1	7.2	776	17.5
	1539	15.0	0.1	7.2	778	17.5
	1540	16.0	0.1	7.2	1,040	17.5
November 3,1998	1318	0.1	6.1	—	794	19.6
	1319	1.0	6.4	—	804	19.4
	1320	2.0	6.2	—	808	19.3
	1321	3.0	6.1	—	808	19.2
	1322	4.0	5.9	—	808	19.2
	1323	5.0	5.9	—	809	19.2
	1324	6.0	5.9	—	810	19.2
	1325	7.0	5.9	—	810	19.1
	1326	8.0	5.8	—	810	19.1
	1327	9.0	5.8	—	806	19.1
	1328	10.0	5.8	—	805	19.1
	1329	11.0	5.8	—	805	19.1
	1330	12.0	5.7	—	806	19.1
	1331	13.0	5.7	—	805	19.1
	1332	14.0	5.7	—	805	19.1
	1333	15.0	5.7	—	805	19.1
January 6, 1999	1000	0.1	8.7	7.8	847	12.1
	1001	1.0	8.6	7.9	848	12.0
	1002	2.0	8.6	7.9	849	12.0
	1003	3.0	8.6	7.9	850	12.0
	1004	4.0	8.6	7.9	851	11.9
	1005	5.0	8.6	7.9	851	11.9
	1006	6.0	8.6	7.9	851	11.9
	1007	7.0	8.5	7.9	852	11.9
	1008	8.0	8.6	7.9	852	11.9
	1009	9.0	8.5	7.9	852	11.9
	1010	10.0	8.4	7.9	853	11.9
	1011	11.0	8.3	7.9	854	11.9
	1012	12.0	7.8	7.9	854	11.9
	1013	13.0	7.8	7.9	855	11.9
	1014	13.6	7.4	7.9	860	11.9

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance (μ S/cm)	Water temperature (°C)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
March 1, 1999	1000	0.1	11.5	8.9	773	16.1
	1001	1.0	12.1	8.8	758	15.3
	1002	2.0	12.2	8.7	760	15.1
	1003	3.0	12.1	8.7	760	14.9
	1004	4.0	8.5	8.2	759	13.6
	1005	5.0	7.3	8.1	757	13.3
	1006	6.0	6.4	8.0	755	13.1
	1007	7.0	5.8	7.8	752	12.8
	1008	8.0	5.6	7.8	752	12.8
	1009	9.0	5.8	7.9	751	12.7
	1010	10.0	5.8	7.8	749	12.6
	1011	11.0	5.2	7.8	749	12.5
	1012	12.0	4.8	7.7	749	12.4
	1013	14.0	4.7	7.7	749	12.4
	1014	15.0	3.9	7.7	750	12.4
	1015	16.0	3.8	7.7	750	12.4
	1016	16.5	0.4	8.2	963	12.6
May 3, 1999	1055	0.1	9.1	8.3	795	17.3
	1056	1.0	9.1	8.5	797	17.2
	1057	2.0	9.1	8.3	797	17.2
	1058	3.0	9.0	8.3	797	17.2
	1059	4.0	9.0	8.3	797	17.2
July 12, 1999	1055	0.1	7.9	8.3	874	26.3
	1056	1.0	7.9	8.4	874	26.2
	1057	2.0	7.9	8.3	873	25.7
	1058	3.0	7.8	8.3	873	25.6
	1059	4.0	7.7	8.3	872	25.4
September 20, 1999	1120	0.1	5.9	8.0	864	23.3
	1121	1.0	5.7	8.0	882	22.9
	1122	2.0	5.6	8.0	892	22.7
	1123	3.0	5.4	8.0	894	22.5
	1124	4.0	5.4	8.1	907	22.4
	1125	5.0	5.2	8.0	910	22.4
	1126	6.0	5.2	8.0	917	22.4
	1127	7.0	5.1	8.0	921	22.4
	1128	8.0	2.0	7.6	889	20.7
	1129	9.0	1.1	7.5	860	19.2
	1130	10.0	0.6	7.4	855	18.2
	1131	11.0	0.4	7.3	858	17.2

Sweetwater Reservoir near Vista del Lago station:

September 10, 1998	0835	1.0	6.5	8.5	783	26.4
	0836	2.0	6.5	8.5	784	26.4
	0837	3.0	6.5	8.5	784	26.4
	0838	4.0	6.5	8.5	783	26.4
	0839	5.0	6.4	8.5	781	26.4
	0840	6.0	2.3	8.0	771	25.5
	0841	7.0	0.3	7.6	741	22.2
	0842	8.0	0.2	7.5	739	20.5
	0843	9.0	0.2	7.4	742	19.9

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature ($^{\circ}\text{C}$)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
November 3, 1998	0844	10.0	0.2	7.4	745	19.4
	0846	11.0	0.2	7.4	751	18.6
	1131	1.0	5.8	—	788	19.5
	1132	2.0	5.8	—	790	19.4
	1133	3.0	5.7	—	791	19.3
	1134	4.0	5.5	—	794	19.3
	1135	5.0	5.5	—	793	19.3
	1136	6.0	5.5	—	794	19.3
	1137	7.0	5.4	—	795	19.3
	1138	8.0	5.4	—	795	19.2
	1139	9.0	5.4	—	796	19.2
	1140	10.0	5.4	—	796	19.2
January 6, 1999	1055	0.1	8.8	8.2	852	12.4
	1056	1.0	8.6	8.2	850	12.0
	1057	2.0	8.3	8.1	851	11.9
	1058	3.0	8.0	8.1	852	11.9
	1059	4.0	8.2	8.1	852	11.9
	1100	5.0	8.4	8.2	852	11.9
	1101	6.0	8.4	8.2	853	11.9
	1102	7.0	8.4	8.2	852	11.9
	1103	8.0	8.3	8.1	853	11.9
	1104	9.0	8.5	8.2	853	11.9
March 1, 1999	1059	0.1	11.8	8.8	753	16.8
	1101	1.0	12.0	8.8	753	15.6
	1102	2.0	11.9	8.9	771	15.3
	1103	3.0	11.9	8.8	770	15.3
	1104	4.0	11.9	8.8	769	15.3
	1105	5.0	11.1	8.7	766	14.7
	1106	6.0	7.5	8.2	756	13.7
	1107	7.0	6.5	8.1	757	13.3
	1108	8.0	5.3	8.0	753	12.9
	1109	9.0	5.0	7.9	752	12.8
	1110	10.0	5.1	7.9	752	12.7
	1111	11.0	4.6	7.9	749	12.6
	1112	12.0	4.3	7.8	749	12.5
May 3, 1999	1144	0.1	9.2	8.4	795	17.4
	1145	1.0	9.3	8.4	795	17.4
	1146	2.0	9.3	8.4	795	17.4
	1147	3.0	9.3	8.4	796	17.4
	1148	4.0	9.2	8.3	796	17.2
	1149	5.0	9.0	8.3	796	17.1
	1151	6.0	8.7	8.3	795	17.1
	1152	7.0	5.2	7.8	781	16.2
	1153	8.0	2.9	7.6	771	15.3
	1154	9.0	1.9	7.6	769	15.2
	1155	10.0	1.4	7.5	768	15.0
	1156	11.0	0.8	7.5	767	14.8
	1157	11.1	0.8	7.5	767	14.8

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance (μ S/cm)	Water temperature (°C)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
July 12, 1999	1145	0.1	7.7	8.5	873	26.6
	1146	1.0	7.8	8.5	875	26.5
	1147	2.0	7.8	8.5	876	26.2
	1148	3.0	7.7	8.5	876	25.9
	1149	4.0	6.0	8.0	835	24.5
	1150	5.0	2.0	7.9	842	22.5
	1151	6.0	0.7	7.8	829	21.5
	1152	7.0	0.3	7.8	830	21.1
	1153	8.0	0.2	7.8	796	19.6
	1154	9.0	0.2	7.9	797	17.3
	1155	10.0	0.2	7.9	794	16.6
Sweetwater Reservoir center of minimum pool:						
September 9, 1998	1616	1.0	7.3	8.5	782	27.0
	1617	2.0	7.4	8.5	782	26.9
	1618	3.0	7.4	8.5	783	26.8
	1619	4.0	6.3	8.4	782	26.3
	1620	5.0	1.2	7.7	766	25.2
	1621	6.0	0.7	7.6	753	24.3
	1622	7.0	0.4	7.5	747	22.9
	1623	8.0	0.3	7.5	740	21.6
	1624	9.0	0.2	7.4	745	20.0
	1625	10.0	0.2	7.3	749	19.0
	1626	11.0	0.2	7.3	756	18.3
	1627	12.0	0.2	7.3	764	17.9
	1628	13.0	0.2	7.3	768	17.7
	1629	14.0	0.2	7.3	770	17.7
	1631	15.0	0.1	7.3	769	17.7
	1632	16.0	0.1	7.3	777	17.5
	1633	17.0	0.1	7.1	810	17.5
November 3, 1998	1355	0.1	6.4	—	787	20.7
	1356	1.0	6.0	—	786	19.6
	1357	2.0	5.8	—	787	19.3
	1358	3.0	5.8	—	788	19.2
	1359	4.0	5.7	—	789	19.2
	1400	5.0	5.7	—	790	19.2
	1401	6.0	5.6	—	790	19.2
	1402	7.0	5.6	—	791	19.2
	1403	8.0	5.5	—	792	19.2
	1404	9.0	5.5	—	793	19.2
	1405	10.0	5.5	—	793	19.1
	1406	11.0	5.5	—	793	19.1
	1407	12.0	5.5	—	794	19.1
	1408	13.0	5.5	—	794	19.1
	1409	14.0	5.6	—	794	19.1
	1410	15.0	5.5	—	795	19.1
January 6, 1999	1122	0.1	8.8	8.2	854	12.7
	1123	1.0	8.8	8.2	851	12.1
	1124	2.0	8.6	8.1	852	12.0
	1125	3.0	8.4	8.2	853	12.0
	1126	4.0	8.3	8.1	853	12.0

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature ($^{\circ}\text{C}$)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
March 1, 1999	1127	5.0	8.3	8.1	853	12.0
	1128	6.0	8.2	8.1	853	12.0
	1129	7.0	8.2	8.1	854	12.0
	1130	8.0	7.9	8.1	855	11.9
	1131	9.0	7.7	8.1	855	11.9
	1132	10.0	7.7	8.1	855	11.9
	1133	11.0	7.6	8.1	856	11.9
	1134	12.0	7.6	8.1	856	11.9
	1135	13.0	7.5	8.1	857	11.9
	1136	14.0	6.5	7.9	864	11.9
	1113	0.1	11.9	8.8	776	16.7
	1114	1.0	11.9	8.8	775	16.7
	1115	2.0	12.0	8.8	770	15.8
	1116	3.0	11.9	8.8	768	15.2
	1117	4.0	11.8	8.8	768	15.2
	1118	5.0	11.9	8.7	767	15.1
	1119	6.0	11.2	8.7	760	14.8
	1120	7.0	7.4	8.2	758	13.5
	1121	8.0	6.7	8.1	757	13.3
	1122	9.0	6.1	8.0	750	12.9
	1123	10.0	5.6	8.0	752	12.8
	1124	11.0	5.0	7.9	748	12.7
	1125	12.0	5.3	7.9	750	12.6
	1126	13.0	5.4	7.9	749	12.5
	1127	14.0	5.4	7.9	748	12.5
	1128	15.0	5.3	7.9	748	12.4
	1129	16.0	5.2	7.8	749	12.4
	1130	17.0	3.5	7.8	749	12.4
May 3, 1999	1220	0.1	9.2	8.4	794	17.3
	1221	1.0	9.3	8.4	795	17.3
	1222	2.0	9.4	8.3	795	17.3
	1223	3.0	9.4	8.3	795	17.2
	1224	4.0	9.3	8.3	795	17.2
	1225	5.0	9.3	8.3	795	17.2
	1226	6.0	8.3	8.2	793	17.0
	1227	7.0	3.6	7.6	771	15.4
	1228	8.0	2.9	7.6	771	15.3
	1229	9.0	2.2	7.6	770	15.1
	1230	10.0	2.1	7.5	769	15.0
	1231	11.0	2.0	7.5	768	15.0
	1232	12.0	1.5	7.5	767	14.9
	1233	13.0	0.4	7.5	765	14.7
	1234	14.0	0.3	7.5	766	14.7
	1235	15.0	0.2	7.5	767	14.7
	1237	16.0	0.2	7.5	767	14.6
	1238	16.5	0.2	7.5	773	14.6
July 12, 1999	1220	0.1	7.5	8.5	874	26.3
	1221	0.1	7.6	8.5	875	26.2
	1222	1.0	7.7	8.6	875	26.2

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature ($^{\circ}\text{C}$)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
	1223	2.0	7.8	8.6	875	26.2
	1224	3.0	7.4	8.3	862	25.5
	1225	4.0	6.4	8.2	823	24.6
	1226	5.0	1.8	7.9	845	22.6
	1227	6.0	0.7	7.8	831	21.8
	1228	7.0	0.3	7.8	811	20.9
	1229	8.0	0.2	7.8	807	18.9
	1230	9.0	0.2	7.9	797	17.8
	1231	10.0	0.2	7.9	793	16.6
	1232	11.0	0.2	7.9	795	16.4
	1233	12.0	0.1	7.9	795	16.3
	1234	13.0	0.1	7.8	797	16.1
	1235	14.0	0.1	7.8	799	16.1
	September 20, 1999	1200	0.1	7.4	903	23.6
		1201	1.0	7.2	905	23.0
		1202	2.0	7.0	911	22.6
		1203	3.0	6.8	913	22.6
		1204	4.0	6.6	916	22.5
		1205	5.0	6.3	920	22.4
		1206	6.0	6.3	929	22.4
		1207	7.0	6.6	932	20.5
		1208	8.0	2.0	888	19.1
		1209	9.0	0.9	864	17.9
		1210	10.0	0.7	858	17.9
		1211	11.0	0.5	859	17.3
Sweetwater Reservoir near recreation area:						
September 10, 1998	0951	1.0	6.8	8.5	782	26.5
	0952	2.0	6.7	8.5	780	26.5
	0953	3.0	6.7	8.5	782	26.4
	0954	4.0	6.5	8.5	783	26.3
	0955	5.0	6.4	8.5	783	26.2
	0956	6.0	4.0	8.2	780	26.0
	0957	7.0	0.4	7.7	741	22.6
	0958	8.0	0.2	7.6	736	20.9
	0959	9.0	0.2	7.5	742	19.8
	1000	10.0	0.2	7.4	746	19.2
	1001	11.0	0.2	7.4	749	18.6
	1002	12.0	0.2	7.4	753	18.4
	1003	13.0	0.1	7.4	758	18.1
	1004	14.0	0.2	7.4	766	17.8
	1005	15.0	0.1	7.3	770	17.6
November 3, 1998	1105	0.1	6.1	—	789	20.7
	1106	1.0	5.9	—	786	19.6
	1107	2.0	5.8	—	787	19.3
	1108	3.0	5.7	—	787	19.3
	1109	4.0	5.6	—	788	19.2
	1110	5.0	5.7	—	789	19.2
	1111	6.0	5.6	—	790	19.2
	1112	7.0	5.6	—	790	19.1
	1113	8.0	5.6	—	791	19.1

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance (μ S/cm)	Water temperature (°C)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
January 6, 1999	1114	9.0	5.6	—	791	19.1
	1115	10.0	5.6	—	792	19.1
	1116	11.0	5.6	—	792	19.1
	1117	12.0	5.6	—	792	19.1
	1118	13.0	5.5	—	792	19.1
	1119	14.0	5.4	—	793	19.1
	1150	0.1	8.7	8.2	854	13.1
	1151	1.0	8.5	8.2	852	12.1
	1152	2.0	8.4	8.1	852	12.0
	1153	3.0	8.3	8.1	839	12.0
	1154	4.0	8.3	8.1	853	12.0
	1155	5.0	8.2	8.1	853	12.0
	1156	6.0	8.1	8.1	854	12.0
	1157	7.0	8.0	8.1	854	12.0
	1158	8.0	7.9	8.1	855	11.9
	1159	9.0	7.8	8.1	855	11.9
March 1, 1999	1200	0.1	11.5	8.9	775	16.1
	1201	1.0	11.6	8.4	769	15.9
	1202	2.0	11.6	8.9	766	15.3
	1203	3.0	11.6	8.9	763	15.1
	1204	4.0	11.7	8.8	765	15.0
	1205	5.0	10.3	8.7	762	14.4
	1206	6.0	6.6	8.2	758	13.4
	1207	7.0	6.3	8.1	758	13.3
	1208	8.0	5.9	8.1	754	12.9
	1209	9.0	5.4	8.0	751	12.7
	1210	10.0	5.3	8.0	750	12.5
	1211	11.0	5.2	8.0	749	12.5
	1212	12.0	5.4	8.0	748	12.4
	1213	13.0	4.7	7.9	749	12.4
	1214	14.0	4.4	7.9	749	12.4
	1215	15.0	3.8	7.8	749	12.4
	1216	16.0	3.7	7.9	750	12.4
May 3, 1999	1300	0.1	8.9	8.3	793	17.2
	1301	1.0	9.0	8.3	794	17.2
	1302	2.0	9.1	8.3	795	17.2
	1303	3.0	9.1	8.3	795	17.2
	1304	4.0	9.0	8.3	795	17.2
	1305	5.0	8.9	8.3	795	17.1
	1306	6.0	8.7	8.0	778	16.3
	1307	7.0	4.9	7.8	774	16.1
	1308	8.0	3.0	7.6	771	15.2
	1309	9.0	2.4	7.5	769	15.2
	1311	10.0	1.8	7.5	768	15.0
	1312	11.0	1.1	7.5	766	14.8
	1313	12.0	0.4	7.4	766	14.7
	1314	13.0	0.2	7.5	767	14.6
	1315	14.0	0.2	7.5	767	14.6
	1316	15.0	0.2	7.4	769	14.6

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature ($^{\circ}\text{C}$)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
July 12, 1999	1300	0.1	7.1	8.4	874	26.4
	1301	1.0	7.3	8.5	874	26.3
	1302	2.0	7.4	8.5	875	26.2
	1303	3.0	7.2	8.4	869	25.6
	1304	4.0	7.2	8.4	872	25.3
	1305	5.0	1.6	7.8	822	22.5
	1306	6.0	0.7	7.7	829	21.5
	1307	7.0	0.3	7.7	826	20.9
	1308	8.0	0.2	7.7	799	18.6
	1309	9.0	0.2	7.8	801	17.8
	1310	10.0	0.1	7.8	795	16.6
	1311	11.0	0.1	7.8	795	16.4
	1312	12.0	0.1	7.8	797	16.4
	1313	13.0	0.1	7.6	798	16.1
Sweetwater Reservoir minimum pool boundary East:						
September 10, 1998	1220	1.0	7.4	8.5	779	27.8
	1221	2.0	7.0	8.4	781	27.2
	1222	3.0	6.7	8.4	781	27.0
	1223	4.0	6.9	8.4	780	26.6
	1224	5.0	6.2	8.3	781	26.2
	1225	6.0	0.4	7.7	760	25.1
	1226	7.0	0.3	7.6	746	23.4
	1227	8.0	0.2	7.5	737	21.1
	1228	9.0	0.2	7.4	741	19.8
	1229	10.0	0.2	7.4	749	18.7
	1230	11.0	0.2	7.3	753	18.4
	1231	12.0	0.2	7.3	758	18.1
	1232	13.0	0.2	7.3	768	17.7
November 3, 1998	1202	0.1	5.8	—	788	20.2
	1203	1.0	5.7	—	789	20.2
	1204	2.0	5.5	—	788	19.7
	1205	3.0	5.4	—	789	19.4
	1206	4.0	5.4	—	790	19.4
	1207	5.0	5.4	—	790	19.3
	1208	6.0	5.4	—	791	19.3
	1209	7.0	5.4	—	791	19.3
	1210	8.0	5.4	—	792	19.3
	1211	9.0	5.3	—	793	19.3
	1212	10.0	5.1	—	793	19.2
	1213	11.0	5.1	—	793	19.2
	1214	12.0	5.1	—	793	19.2
January 6, 1999	1325	0.1	10.5	8.4	853	13.5
	1326	1.0	9.7	8.2	852	12.3
	1327	2.0	9.2	8.2	852	12.2
	1328	3.0	8.9	8.3	852	12.1
	1329	4.0	8.8	8.2	853	12.1
	1330	5.0	8.6	8.2	855	12.1
	1331	6.0	8.1	8.1	858	12.0
	1332	7.0	7.9	8.1	858	12.0
	1333	8.0	7.8	8.1	858	11.9

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance (μ S/cm)	Water temperature (°C)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
March 2, 1999	1334	9.0	7.7	8.1	860	11.9
	1335	10.0	7.5	8.1	862	11.9
	1336	11.0	6.4	8.1	873	11.9
	1325	0.1	11.6	8.8	751	15.6
	1326	1.0	11.9	8.8	764	15.6
	1327	2.0	11.9	8.8	764	15.5
	1328	3.0	11.8	8.9	758	15.3
	1329	4.0	11.3	8.8	758	14.8
	1330	5.0	8.4	8.4	757	14.0
	1331	6.0	6.8	8.2	754	13.5
	1332	7.0	6.0	8.1	755	13.2
	1333	8.0	6.0	8.1	750	13.2
	1334	9.0	5.6	8.0	750	12.8
	1335	10.0	5.5	8.0	749	12.8
	1336	11.0	5.2	8.0	749	12.7
	1337	12.0	4.6	7.9	747	12.5
	1338	13.0	4.5	7.9	747	12.5
	1339	13.5	4.2	8.1	747	12.5
May 3, 1999	1335	0.1	9.2	8.3	800	17.9
	1336	1.0	9.3	8.3	800	17.9
	1337	2.0	9.4	8.3	800	17.9
	1338	3.0	9.4	8.3	800	17.9
	1339	4.0	9.4	8.3	799	17.9
	1340	5.0	9.3	8.3	799	17.8
	1341	6.0	9.2	8.2	798	17.8
	1342	7.0	8.0	8.1	796	17.2
	1343	8.0	7.0	8.0	790	16.8
	1344	9.0	4.8	7.6	775	16.1
	1345	10.0	3.6	7.6	776	15.8
	1346	11.0	3.3	7.6	777	15.7
	1347	12.0	2.7	7.5	772	15.6
	1348	13.0	1.1	7.4	770	15.1
July 12, 1999	1335	0.1	7.3	8.6	880	27.1
	1336	1.0	7.4	8.6	879	27.1
	1337	2.0	7.5	8.7	878	27.1
	1338	3.0	7.5	8.7	878	27.1
	1339	4.0	7.4	8.6	864	26.7
	1340	5.0	7.2	8.6	873	25.1
	1341	6.0	6.0	8.1	850	24.4
	1342	7.0	3.3	8.0	808	22.8
	1343	8.0	1.5	7.9	823	20.6
	1344	9.0	1.0	7.9	805	18.5
	1345	10.0	0.8	7.9	797	17.4
	1346	11.0	0.7	7.9	794	17.2
	1347	11.2	0.4	7.9	796	16.6

Sweetwater Reservoir east end reservoir fill boundary:

September 10, 1998	1300	1.0	7.5	8.6	786	27.8
	1301	2.0	7.2	8.6	786	27.6
	1302	3.0	6.3	8.4	788	27.2

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature ($^{\circ}\text{C}$)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
November 3, 1998	1303	4.0	3.8	8.2	776	26.3
	1304	5.0	0.3	7.8	762	25.2
	1333	0.1	5.5	—	789	20.1
	1334	1.0	5.5	—	791	20.1
	1335	2.0	5.5	—	792	20.0
January 6, 1999	1336	3.0	5.5	—	797	19.7
	1352	0.1	10.6	8.4	853	13.8
	1353	1.0	8.6	8.2	853	12.1
	1354	2.0	8.3	8.1	857	12.0
	1355	2.3	8.2	8.2	857	12.0
March 1, 1999	1233	0.1	12.0	9.2	774	16.9
	1234	1.0	12.1	8.9	769	16.6
	1235	2.0	12.5	8.9	770	15.8
	1236	3.0	11.4	8.7	760	14.8
	1237	4.0	10.1	8.7	760	14.3
	1238	5.0	8.0	8.4	759	14.0
	1239	5.7	12.1	8.9	769	16.9
May 3, 1999	1430	0.1	9.2	8.4	812	18.6
	1431	1.0	9.3	8.4	816	18.6
	1432	2.0	9.4	8.3	816	18.6
	1433	3.0	9.3	8.3	815	18.6
	1434	4.0	9.4	8.4	815	18.6
	1435	4.7	9.3	8.3	812	18.6
July 12, 1999	1430	0.1	7.4	8.4	892	28.2
	1431	1.0	7.6	8.4	898	28.1
	1432	2.0	7.4	8.4	890	27.9
September 20, 1999	1240	0.1	8.4	8.3	910	24.2
	1241	0.5	8.3	8.3	913	24.2

Sweetwater Reservoir near Gum Tree Cove Pond:

September 10, 1998	0910	1.0	6.3	8.5	785	26.8
	0911	2.0	6.3	8.5	784	26.8
	0912	3.0	6.3	8.5	784	26.8
	0913	4.0	6.3	8.5	784	26.9
	0914	5.0	5.6	8.4	781	26.6
	0915	6.0	0.2	7.7	758	24.6
	0916	7.0	0.2	7.6	743	22.8
	0917	8.0	0.5	7.5	738	21.1
	0918	9.0	0.2	7.4	743	19.8
	0919	10.0	0.2	7.4	750	19.0
	0920	11.0	0.2	7.4	756	18.3
	0921	12.0	0.2	7.4	766	17.9
	0922	13.0	0.2	7.3	769	17.7
November 3, 1998	1423	0.1	5.9	—	787	20.1
	1424	1.0	5.8	—	789	20.0
	1425	2.0	5.6	—	788	19.8

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature ($^{\circ}\text{C}$)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
January 6, 1999	1426	3.0	5.4	—	790	19.2
	1427	4.0	5.3	—	790	19.4
	1428	5.0	5.2	—	792	19.4
	1429	6.0	5.1	—	792	19.4
	1430	7.0	5.1	—	793	19.4
	1431	8.0	5.1	—	794	19.3
	1432	9.0	5.1	—	795	19.3
	1433	10.0	4.9	—	795	19.2
	1434	11.0	5.0	—	796	19.1
	1435	12.0	5.0	—	796	19.1
	1414	0.1	11.8	8.5	858	13.7
	1415	1.0	9.2	8.3	855	12.3
	1416	2.0	8.9	8.2	856	12.2
	1417	3.0	8.8	8.3	856	12.2
	1418	4.0	8.8	8.2	856	12.2
	1419	5.0	8.7	8.1	857	12.1
	1420	6.0	8.5	8.2	859	12.1
	1421	7.0	8.4	8.2	1,120	12.0
	1422	8.0	8.5	8.2	1,150	12.0
	1423	9.0	8.4	8.1	1,160	11.7
	1424	10.0	8.4	8.1	1,180	11.7
	1425	10.1	8.3	8.2	1,190	11.7
March 1, 1999	1300	0.1	12.2	8.9	774	16.8
	1301	1.0	12.5	8.9	772	16.6
	1302	2.0	13.0	9.1	775	15.8
	1303	3.0	12.0	8.8	771	15.4
	1304	4.0	11.4	8.8	773	15.2
	1305	5.0	9.8	8.7	768	14.7
	1306	6.0	8.0	8.3	761	13.8
	1307	7.0	5.8	8.1	757	13.2
	1308	8.0	5.0	8.0	754	12.9
	1309	9.0	4.7	8.0	753	12.7
	1311	10.0	4.6	7.9	752	12.7
	1312	11.0	4.3	7.9	751	12.6
	1313	12.0	4.0	7.9	751	12.5
	1314	13.0	3.8	7.9	751	12.5
	1315	13.3	2.5	7.9	751	12.5
May 3, 1999	1445	0.1	9.1	8.4	798	17.8
	1446	1.0	9.2	8.3	799	17.8
	1447	2.0	9.3	8.3	799	17.8
	1448	3.0	9.3	8.3	799	17.8
	1449	4.0	9.3	8.3	799	17.8
	1450	5.0	9.0	8.3	799	17.7
	1451	6.0	8.1	8.1	795	17.1
	1452	7.0	6.7	8.0	789	16.7
	1453	8.0	5.0	7.8	782	16.2
	1454	9.0	4.4	7.7	781	16.1
	1455	10.0	3.5	7.6	778	15.8
	1456	11.0	1.6	7.6	772	15.3

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance (μ S/cm)	Water temperature (°C)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
July 12, 1999	1455	0.1	7.5	8.5	878	27.1
	1456	1.0	7.6	8.5	878	27.1
	1457	2.0	7.7	8.5	872	27.0
	1458	3.0	7.6	8.5	868	26.2
	1459	4.0	6.6	8.3	871	24.9
Loveland Reservoir near dam:						
September 10, 1998	1540	1.0	7.8	8.7	409	27.0
	1541	2.0	7.8	8.7	409	26.3
	1542	4.0	7.8	8.7	409	26.1
	1543	6.0	1.8	7.9	367	23.2
	1544	8.0	0.5	7.7	334	17.0
	1545	10.0	0.4	7.7	322	14.3
	1546	12.0	0.2	7.6	325	12.7
	1547	14.0	0.3	7.5	331	12.0
	1548	16.0	0.3	7.5	343	12.1
	1549	18.0	0.3	7.5	343	11.6
	1550	20.0	0.3	7.5	339	11.5
	1551	22.0	0.5	7.5	342	11.4
	1552	24.0	0.7	7.5	341	11.4
	1553	26.0	0.6	7.4	341	11.3
	1554	28.0	0.7	7.4	340	11.3
	1555	30.0	0.6	7.4	341	11.3
	1556	32.0	0.6	7.4	341	11.3
	1557	34.0	0.5	7.4	340	11.3
	1558	36.0	0.5	7.4	340	11.3
	1559	38.0	0.7	7.4	342	11.3
	1600	40.0	0.8	7.4	344	11.3
	1601	42.0	0.4	7.4	348	11.3
	1602	44.0	0.2	7.3	382	11.3
	1603	46.0	0.2	7.3	400	11.4
	1604	48.0	0.2	7.3	405	11.4
	1605	50.0	0.1	7.3	409	11.4
November 4, 1998	0825	0.1	7.9	—	390	17.6
	0826	1.0	8.0	—	389	17.5
	0827	2.0	8.0	—	388	17.3
	0828	3.0	7.9	—	387	17.2
	0829	4.0	7.8	—	388	17.2
	0830	5.0	7.8	—	387	17.2
	0831	6.0	7.8	—	388	17.2
	0832	7.0	7.8	—	387	17.2
	0833	8.0	7.7	—	388	17.1
	0834	9.0	7.7	—	386	17.1
	0835	10.0	7.7	—	386	17.1
	0836	11.0	3.3	—	341	15.9
	0837	12.0	1.3	—	304	13.2
	0838	13.0	0.7	—	304	12.3
	0839	14.0	0.4	—	306	12.0
	0840	16.0	0.3	—	315	11.7
	0841	18.0	0.2	—	316	11.5
	0842	20.0	0.2	—	315	11.4
	0843	22.0	0.2	—	314	11.4
	0844	24.0	0.2	—	313	11.3

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance (μS/cm)	Water temperature (°C)	
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)	
	0845	26.0	0.1	—	315	11.3	
	0846	28.0	0.1	—	314	11.3	
	0847	30.0	0.1	—	313	11.3	
	0848	32.0	0.1	—	313	11.3	
	0849	34.0	0.1	—	313	11.3	
	0850	36.0	0.1	—	313	11.3	
	0851	38.0	0.1	—	314	11.2	
	0852	40.0	0.1	—	315	11.2	
	0853	42.0	0.1	—	333	11.3	
	0854	44.0	0.1	—	353	11.4	
	January 7, 1999	1000	0.1	6.2	7.9	390	17.6
		1001	1.0	6.0	8.0	389	17.5
		1002	2.0	6.0	8.0	388	17.3
		1003	3.0	6.0	7.9	387	17.2
1004		4.0	5.9	7.8	388	17.2	
1005		5.0	5.9	7.8	388	17.2	
1006		6.0	5.9	7.8	387	17.2	
1007		7.0	5.9	7.8	388	17.2	
1008		8.0	5.9	7.5	372	11.1	
1009		9.0	5.9	7.5	373	11.1	
1011		10.0	5.9	7.5	373	11.1	
1012		12.0	5.9	7.5	375	11.1	
1013		14.0	5.9	7.5	370	11.1	
March 2, 1999	1000	0.1	11.7	9.1	400	15.2	
	1001	1.0	11.8	9.2	403	14.1	
	1002	2.0	12.0	9.3	403	13.9	
	1003	3.0	11.9	9.1	403	13.8	
	1004	4.0	11.8	9.1	403	13.7	
	1005	5.0	11.6	9.0	399	13.4	
	1006	6.0	10.3	8.6	394	12.5	
	1007	7.0	8.3	8.2	393	11.7	
	1008	8.0	7.5	8.2	393	11.4	
	1009	9.0	7.3	8.1	393	11.1	
	1010	10.0	7.2	8.1	392	11.0	
	1011	12.0	7.2	8.1	392	10.9	
	1012	14.0	7.0	8.0	392	10.9	
	1013	16.0	7.1	8.0	391	10.9	
	1014	18.0	7.1	7.9	391	10.8	
	1015	20.0	7.1	7.9	391	10.8	
	1016	22.0	7.0	7.9	391	10.8	
	1017	24.0	7.1	7.9	390	10.8	
	1018	26.0	7.1	7.9	390	10.8	
	1019	28.0	6.8	7.9	393	10.8	
	1020	30.0	6.6	7.9	394	10.8	
	1021	32.0	6.5	7.9	397	10.8	
	1022	34.0	6.1	7.8	397	10.8	
	1023	36.0	5.9	7.8	408	10.8	
	1024	38.0	5.7	7.9	400	10.8	
	1025	38.5	5.7	7.9	491	10.8	
May 4, 1999	1010	0.1	9.1	8.2	418	15.9	
	1011	1.0	9.0	8.3	420	15.9	

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature ($^{\circ}\text{C}$)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
	1012	2.0	8.8	8.2	420	15.9
	1013	3.0	8.9	8.2	420	15.9
	1014	4.0	8.8	8.3	420	15.8
	1015	5.0	7.9	8.2	420	15.8
	1016	6.0	8.7	8.3	420	15.7
	1017	7.0	8.6	8.2	406	15.7
	1018	8.0	6.6	7.6	408	14.6
	1019	9.0	5.6	7.6	404	13.8
	1020	10.0	5.2	7.5	403	13.3
	1021	12.0	3.7	7.4	389	12.1
	1022	14.0	2.6	7.3	387	11.6
	1023	16.0	2.3	7.3	387	11.4
	1024	18.0	2.1	7.3	387	11.3
	1025	20.0	2.2	7.2	387	11.3
	1026	22.0	2.1	7.2	387	11.3
	1027	24.0	2.2	7.2	387	11.2
	1028	26.0	2.1	7.2	386	11.2
	1029	28.0	2.1	7.2	386	11.2
	1030	30.0	2.1	7.2	386	11.2
	1031	32.0	2.2	7.2	385	11.2
	1032	34.0	2.0	7.2	385	11.2
	1033	36.0	2.0	7.2	385	11.2
	1034	38.0	2.0	7.2	385	11.2
	1035	39.1	0.1	7.5	390	11.1
July 13, 1999	1010	0.1	8.0	8.8	462	26.6
	1011	1.0	8.2	8.8	462	26.4
	1012	2.0	8.2	8.9	462	26.4
	1013	3.0	8.2	8.9	462	26.0
	1014	4.0	8.1	8.8	460	26.0
	1015	5.0	7.8	8.7	436	25.2
	1016	6.0	3.0	7.8	441	21.0
	1017	7.0	0.4	7.7	427	17.6
	1018	8.0	0.1	7.8	420	16.4
	1019	9.0	0.1	7.8	414	15.2
	1021	10.0	0.1	7.8	411	14.5
	1022	12.0	0.1	7.8	395	13.5
	1023	14.0	0.1	7.6	395	12.2
	1024	16.0	0.1	7.6	391	11.7
	1025	18.0	0.1	7.5	391	11.5
	1026	20.0	0.1	7.5	391	11.4
	1027	22.0	0.1	7.4	391	11.4
	1028	24.0	0.1	7.4	390	11.4
	1029	26.0	0.1	7.4	390	11.4
	1031	28.0	0.1	7.3	390	11.4
	1032	30.0	0.1	7.3	391	11.4
	1033	32.0	0.1	7.3	391	11.3
	1034	34.0	0.1	7.3	391	11.3
	1035	36.0	0.1	7.3	495	11.4
	1036	37.8	0.1	7.2	385	11.2
September 21, 1999	0940	0.1	8.2	8.4	483	22.8
	0941	1.0	8.3	8.4	486	23.0
	0942	2.0	8.2	8.4	488	22.9

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature (°C)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
	0943	3.0	8.1	8.4	490	22.9
	0944	4.0	8.2	8.4	491	22.9
	0945	5.0	8.2	8.4	492	22.9
	0946	6.0	8.2	8.4	493	22.8
	0947	7.0	8.1	8.4	494	22.8
	0948	8.0	7.9	8.4	495	22.7
	0949	9.0	1.2	7.7	460	18.7
	0950	10.0	0.7	7.5	488	15.8
	0951	12.0	0.3	7.4	436	13.2
	0952	14.0	0.2	7.3	430	12.3
	0953	16.0	0.2	7.2	427	11.8
	0954	18.0	0.2	7.2	427	11.6
	0955	20.0	0.1	7.2	428	11.6
	0956	22.0	0.2	7.2	429	11.5
	0957	24.0	0.1	7.1	429	11.5
	0958	26.0	0.1	7.1	429	11.5
	0959	28.0	0.1	7.1	429	11.5
	1000	30.0	0.1	7.1	429	11.5
	1001	32.0	0.1	7.1	429	11.5
	1002	34.0	0.1	7.1	429	11.5
	1003	36.0	0.1	7.1	429	11.4
	1004	38.0	0.1	7.0	452	11.5

Loveland Reservoir east end near source inlet:

September 10, 1998	1630	1.0	7.2	8.6	415	27.5
	1631	2.0	7.0	8.6	417	27.4
	1632	3.0	7.0	8.6	417	27.4
	1633	4.0	6.9	8.6	418	27.3
	1634	5.0	6.6	8.5	422	27.0
	1635	6.0	1.8	7.9	434	25.2
	1636	7.0	0.6	7.7	400	23.3
	1637	8.0	0.2	7.6	347	18.1
	1638	9.0	0.2	7.5	338	14.9
	1639	10.0	0.2	7.5	341	13.8
	1640	11.0	0.2	7.5	343	12.6
	1641	12.0	0.2	7.5	339	12.2
	1642	13.0	0.2	7.5	338	12.0
	1643	14.0	0.2	7.5	339	11.8
	1644	15.0	0.2	7.5	340	11.7
	1645	16.0	0.1	7.5	342	11.6
	1646	17.0	0.1	7.4	343	11.5
	1647	18.0	0.1	7.4	344	11.5
November 4, 1998	0930	0.1	7.6	—	390	18.0
	0931	1.0	7.5	—	391	18.0
	0932	2.0	7.4	—	391	17.9
	0933	3.0	7.2	—	394	17.8
	0934	4.0	7.0	—	396	17.6
	0935	5.0	6.6	—	396	17.6
	0936	6.0	6.6	—	393	17.5
	0937	7.0	6.6	—	392	17.5
	0938	8.0	6.4	—	393	17.5
	0939	9.0	5.5	—	384	17.3

Table 2. Water-quality depth-profile data for dissolved oxygen, pH, specific conductance, and temperature for the Sweetwater and Loveland Reservoirs sampling sites, San Diego County, California—*Continued*

Date	Time	Sampling depth (m)	Oxygen, dissolved (mg/L)	pH, water whole field (standard units)	Specific conductance ($\mu\text{S}/\text{cm}$)	Water temperature ($^{\circ}\text{C}$)
		(PCODE: 00098)	(PCODE: 000300)	(PCODE: 000400)	(PCODE: 00095)	(PCODE: 00010)
	0940	10.0	4.7	—	372	16.9
	0941	11.0	2.2	—	355	15.8
	0942	12.0	1.0	—	329	14.2
	0943	13.0	0.6	—	324	13.0
	0944	14.0	0.5	—	320	12.5
	0945	15.0	0.4	—	319	12.2
	0946	16.0	0.4	—	319	11.9
	0947	18.0	0.3	—	318	11.6
March 2, 1999	1140	0.1	11.5	8.7	417	15.5
	1141	1.0	11.6	8.8	416	15.3
	1142	2.0	11.6	8.8	414	14.2
	1143	3.0	11.0	8.7	416	13.8
	1144	4.0	10.3	8.5	421	13.6
	1145	5.0	9.9	8.5	422	13.5
	1146	6.0	9.0	8.3	424	13.1
	1147	7.0	7.8	8.1	411	12.7
	1148	8.0	6.6	8.0	413	12.2
	1149	9.0	6.3	7.9	410	12.0
	1150	9.7	5.7	7.9	410	11.9
May 4, 1999	1110	0.1	9.1	8.4	434	17.5
	1111	1.0	9.1	8.5	434	17.5
	1112	2.0	9.0	8.4	434	17.4
	1113	3.0	8.9	8.4	435	17.3
	1114	4.0	8.8	8.4	431	17.2
	1115	5.0	8.1	8.3	430	16.6
	1116	6.0	6.2	7.8	422	15.8
	1117	7.0	5.1	7.7	421	15.0
	1118	8.0	4.4	7.6	420	14.4
	1119	9.0	3.8	7.6	413	13.9
	1121	10.0	3.4	7.5	411	13.6
	1122	10.4	3.1	7.5	410	13.5
July 13, 1999	1110	0.1	7.3	9.0	469	27.6
	1111	1.0	7.6	9.0	468	27.6
	1112	2.0	7.7	9.0	464	27.6
	1113	3.0	7.7	9.0	467	27.0
	1114	4.0	7.4	8.9	462	25.5
	1115	5.0	6.4	8.6	456	24.7
	1116	6.0	4.8	8.6	459	23.8
	1117	7.0	2.1	8.0	428	21.8
	1118	8.0	0.4	8.0	431	18.4
	1119	9.0	0.2	8.0	420	15.8
	1120	10.0	0.2	8.0	414	14.4
	1121	10.4	0.1	8.1	416	14.1

Table 3. Analytical results for volatile organic compound concentrations (VOCs) in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California

[See table 1 for site identification number. Time is denoted in 24-hour scale. An “E” indicates that the value has been estimated because of interference or is below method reporting limits. The number given below each compound is its parameter code (PCODE). Calif., California; SWR, Sweetwater Reservoir; NA, not analyzed; %, percentage recovery; <, compound was not detected at a concentration above the reporting level; µg/L, microgram per liter]

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Acetate, vinyl	Acrolein total	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1-Dichloropropene	1,2,3-Trichloropropane	1,2-Dibromoethane
Site name	Date	Time	77057 (µg/L)	34210 (µg/L)	34506 (µg/L)	34511 (µg/L)	34496 (µg/L)	34501 (µg/L)	77168 (µg/L)	77443 (µg/L)	77651 (µg/L)
SWR near pump tower	9-Sep-1998	1550	NA	NA	<0.128	<0.256	<0.264	<0.176	<0.104	<0.640	<0.144
SWR near pump tower	9-Sep-1998	1600	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near pump tower	3-Nov-1998	1030	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near pump tower	3-Nov-1998	1040	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near pump tower	6-Jan-1999	930	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near pump tower	1-Mar-1999	1030	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near pump tower	1-Mar-1999	1045	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near pump tower	3-May-1999	1115	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near pump tower	3-May-1999	1130	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near pump tower	12-Jul-1999	1120	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near pump tower	12-Jul-1999	1130	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near pump tower	20-Sep-1999	1140	NA	NA	<0.032	<0.060	<0.066	<0.040	<0.026	<0.160	<0.036
SWR near pump tower	20-Sep-1999	1150	NA	NA	<0.032	<0.060	<0.066	<0.040	<0.026	<0.160	<0.036
SWR near Vista del Lago station	10-Sep-1998	845	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near Vista del Lago station	10-Sep-1998	900	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near Vista del Lago station	3-Nov-1998	1110	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near Vista del Lago station	6-Jan-1999	1000	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near Vista del Lago station	1-Mar-1999	1100	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near Vista del Lago station	3-May-1999	1150	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near Vista del Lago station	3-May-1999	1200	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near Vista del Lago station	12-Jul-1999	1210	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near Vista del Lago station	12-Jul-1999	1220	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR center of minimum pool	9-Sep-1998	1630	NA	NA	<0.128	<0.256	<0.264	<0.176	<0.104	<0.640	<0.144
SWR center of minimum pool	9-Sep-1998	1640	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR center of minimum pool	3-Nov-1998	1140	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR center of minimum pool	3-Nov-1998	1150	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR center of minimum pool	6-Jan-1999	1030	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR center of minimum pool	1-Mar-1999	1130	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR center of minimum pool	3-May-1999	1235	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR center of minimum pool	3-May-1999	1240	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR center of minimum pool	12-Jul-1999	1240	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR center of minimum pool	12-Jul-1999	1250	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR center of minimum pool	20-Sep-1999	1220	NA	NA	<0.032	<0.060	<0.066	<0.040	<0.026	<0.160	<0.036
SWR center of minimum pool	20-Sep-1999	1230	NA	NA	<0.032	<0.060	<0.066	<0.040	<0.026	<0.160	<0.036
SWR near recreation area	10-Sep-1998	1010	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE Site name	Date	Time	Acetate, vinyl 77057 (µg/L)	Acrolein total 34210 (µg/L)	1,1,1-Trichloroethane 34506 (µg/L)	1,1,2-Trichloroethane 34511 (µg/L)	1,1-Dichloroethane 34496 (µg/L)	1,1-Dichloroethylene 34501 (µg/L)	1,1-Dichloropropene 77168 (µg/L)	1,2,3-Trichloropropane 77443 (µg/L)	1,2-Dibromoethane 77651 (µg/L)
SWR near recreation area	10-Sep-1998	1020	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near recreation area	3-Nov-1998	1205	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near recreation area	3-Nov-1998	1215	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near recreation area	6-Jan-1999	1100	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near recreation area	1-Mar-1999	1220	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near recreation area	3-May-1999	1310	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near recreation area	3-May-1999	1320	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near recreation area	12-Jul-1999	1320	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near recreation area	12-Jul-1999	1330	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR minimum pool boundary east	10-Sep-1998	1240	NA	NA	<0.128	<0.256	<0.264	<0.176	<0.104	<0.640	<0.144
SWR minimum pool boundary east	10-Sep-1998	1250	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR minimum pool boundary east	3-Nov-1998	1340	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR minimum pool boundary east	6-Jan-1999	1130	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR minimum pool boundary east	2-Mar-1999	840	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR minimum pool boundary east	3-May-1999	1350	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR minimum pool boundary east	3-May-1999	1400	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR minimum pool boundary east	12-Jul-1999	1420	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR east end reservoir fill boundary	10-Sep-1998	1310	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.162	<0.036
SWR east end reservoir fill boundary	3-Nov-1998	1400	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR east end reservoir fill boundary	6-Jan-1999	1150	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR east end reservoir fill boundary	1-Mar-1999	1240	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR east end reservoir fill boundary	3-May-1999	1440	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR east end reservoir fill boundary	12-Jul-1999	1440	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR east end reservoir fill boundary	20-Sep-1999	1250	NA	NA	<0.032	<0.060	<0.066	<0.040	<0.026	<0.160	<0.036
SWR near Gum Tree Cove Pond	10-Sep-1998	930	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near Gum Tree Cove Pond	10-Sep-1998	940	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near Gum Tree Cove Pond	3-May-1999	1510	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir near dam site 1	10-Sep-1998	1610	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.162	<0.036
Loveland Reservoir near dam site 1	10-Sep-1998	1620	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.162	<0.036
Loveland Reservoir near dam site 1	4-Nov-1998	1030	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir near dam site 1	4-Nov-1998	1040	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir near dam site 1	7-Jan-1999	1010	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
Loveland Reservoir near dam site 1	2-Mar-1999	1150	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Acetate, vinyl	Acrolein total	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1-Dichloropropene	1,2,3-Trichloropropane	1,2-Dibromoethane
Site name	Date	Time	77057 (µg/L)	34210 (µg/L)	34506 (µg/L)	34511 (µg/L)	34496 (µg/L)	34501 (µg/L)	77168 (µg/L)	77443 (µg/L)	77651 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir near dam site 1	4-May-1999	1050	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir near dam site 1	13-Jul-1999	1020	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir near dam site 1	13-Jul-1999	1030	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir near dam site 1	21-Sep-1999	1000	NA	NA	<0.032	<0.060	<0.066	<0.040	<0.026	<0.160	<0.036
Loveland Reservoir near dam site 1	21-Sep-1999	1020	NA	NA	<0.032	<0.060	<0.066	<0.040	<0.026	<0.160	<0.036
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.162	<0.036
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.162	<0.036
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	NA	NA	<0.032	<0.060	<0.066	<0.040	<0.026	<0.160	<0.036
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	NA	NA	<0.064	<0.128	<0.132	<0.088	<0.052	<0.320	<0.072
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	NA	NA	<0.032	<0.064	<0.066	<0.044	<0.026	<0.160	<0.036
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	NA	NA	E0.028	0.060	<0.066	<0.040	<0.026	<0.160	<0.036
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	NA	NA	E0.033	0.060	<0.066	<0.040	<0.026	<0.160	<0.036

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2-Dichloroethane	1,2-Dichloropropane	<i>trans</i> -1,2-Dichloroethylene	2,2-Dichloropropane	<i>trans</i> -1,4-Dichloro-2-butene	2-Hexanone	Acetone	Acrylonitrile
Site name	Date	Time	32103 (µg/L)	34541 (µg/L)	34546 (µg/L)	77170 (µg/L)	73547 (µg/L)	77103 (µg/L)	81552 (µg/L)	34215 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.520	<0.272	<0.128	<0.312	<2.800	<2.800	<20.000	<4.800
SWR near pump tower	9-Sep-1998	1600	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near pump tower	3-Nov-1998	1030	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near pump tower	3-Nov-1998	1040	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near pump tower	6-Jan-1999	930	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near pump tower	1-Mar-1999	1030	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near pump tower	1-Mar-1999	1045	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near pump tower	3-May-1999	1115	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near pump tower	3-May-1999	1130	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near pump tower	12-Jul-1999	1120	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near pump tower	12-Jul-1999	1130	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near pump tower	20-Sep-1999	1140	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	E1.780	<1.200
SWR near pump tower	20-Sep-1999	1150	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	<7.000	<1.200
SWR near Vista del Lago station	10-Sep-1998	845	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near Vista del Lago station	10-Sep-1998	900	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near Vista del Lago station	3-Nov-1998	1110	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near Vista del Lago station	6-Jan-1999	1000	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near Vista del Lago station	1-Mar-1999	1100	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near Vista del Lago station	3-May-1999	1150	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near Vista del Lago station	3-May-1999	1200	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	E1.199	<1.200
SWR near Vista del Lago station	12-Jul-1999	1210	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near Vista del Lago station	12-Jul-1999	1220	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR center of minimum pool	9-Sep-1998	1630	<0.520	<0.272	<0.128	<0.312	<2.800	<2.800	<20.000	<4.800
SWR center of minimum pool	9-Sep-1998	1640	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR center of minimum pool	3-Nov-1998	1140	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR center of minimum pool	3-Nov-1998	1150	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR center of minimum pool	6-Jan-1999	1030	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR center of minimum pool	1-Mar-1999	1130	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR center of minimum pool	3-May-1999	1235	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR center of minimum pool	3-May-1999	1240	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR center of minimum pool	12-Jul-1999	1240	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR center of minimum pool	12-Jul-1999	1250	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR center of minimum pool	20-Sep-1999	1220	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	E2.212	<1.200
SWR center of minimum pool	20-Sep-1999	1230	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	<7.000	<1.200
SWR near recreation area	10-Sep-1998	1010	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2-Dichloroethane	1,2-Dichloropropane	<i>trans</i> -1,2-Dichloroethylene	2,2-Dichloropropane	<i>trans</i> -1,4-Dichloro-2-butene	2-Hexanone	Acetone	Acrylonitrile
Site name	Date	Time	32103 (µg/L)	34541 (µg/L)	34546 (µg/L)	77170 (µg/L)	73547 (µg/L)	77103 (µg/L)	81552 (µg/L)	34215 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near recreation area	3-Nov-1998	1205	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near recreation area	3-Nov-1998	1215	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near recreation area	6-Jan-1999	1100	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near recreation area	1-Mar-1999	1220	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near recreation area	3-May-1999	1310	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near recreation area	3-May-1999	1320	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near recreation area	12-Jul-1999	1320	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near recreation area	12-Jul-1999	1330	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR minimum pool boundary east	10-Sep-1998	1240	<0.520	<0.272	<0.128	<0.312	<2.800	<2.800	<20.000	<4.800
SWR minimum pool boundary east	10-Sep-1998	1250	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR minimum pool boundary east	3-Nov-1998	1340	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR minimum pool boundary east	6-Jan-1999	1130	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR minimum pool boundary east	2-Mar-1999	840	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR minimum pool boundary east	3-May-1999	1350	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR minimum pool boundary east	3-May-1999	1400	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR minimum pool boundary east	12-Jul-1999	1420	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.134	<0.068	<0.032	<0.078	<0.692	<0.746	<4.904	<1.226
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR east end reservoir fill boundary	3-May-1999	1440	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	<7.000	<1.200
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.134	<0.068	<0.032	<0.078	<0.692	<0.746	<4.904	<1.226
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.134	<0.068	<0.032	<0.078	<0.692	<0.746	<4.904	<1.226
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2-Dichloroethane	1,2-Dichloropropane	<i>trans</i> -1,2-Dichloroethylene	2,2-Dichloropropane	<i>trans</i> -1,4-Dichloro-2-butene	2-Hexanone	Acetone	Acrylonitrile
Site name	Date	Time	32103 (µg/L)	34541 (µg/L)	34546 (µg/L)	77170 (µg/L)	73547 (µg/L)	77103 (µg/L)	81552 (µg/L)	34215 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	<7.000	<1.200
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	<7.000	<1.200
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.134	<0.068	<0.032	<0.078	<0.692	<0.746	<4.904	<1.226
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.134	<0.068	<0.032	<0.078	<0.692	<0.746	<4.904	<1.226
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	E0.990	<1.200
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<1.000	<1.200
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	<7.000	<1.200
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.260	<0.136	<0.064	<0.156	<1.400	<1.400	<10.000	<2.400
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	E3.987	<1.200
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	E4.564	<1.200
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.130	<0.068	<0.032	<0.078	<0.700	<0.700	<5.000	<1.200
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	E6.319	<1.200
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.130	<0.068	<0.032	<0.050	<0.700	<0.700	<7.000	<1.200

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Isopropylbenzene
Site name	Date	Time	77613 (µg/L)	77221 (µg/L)	34551 (µg/L)	77222 (µg/L)	77226 (µg/L)	34566 (µg/L)	34571 (µg/L)	77223 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<1.080	<0.480	<0.760	0.224	<0.176	<0.216	<0.20	<0.128
SWR near pump tower	9-Sep-1998	1600	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near pump tower	3-Nov-1998	1030	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near pump tower	3-Nov-1998	1040	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near pump tower	6-Jan-1999	930	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near pump tower	1-Mar-1999	1030	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near pump tower	1-Mar-1999	1045	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near pump tower	3-May-1999	1115	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near pump tower	3-May-1999	1130	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near pump tower	12-Jul-1999	1120	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near pump tower	12-Jul-1999	1130	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near pump tower	20-Sep-1999	1140	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near pump tower	20-Sep-1999	1150	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Vista del Lago station	10-Sep-1998	845	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near Vista del Lago station	10-Sep-1998	900	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near Vista del Lago station	3-Nov-1998	1110	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Vista del Lago station	6-Jan-1999	1000	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near Vista del Lago station	1-Mar-1999	1100	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Vista del Lago station	3-May-1999	1150	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Vista del Lago station	3-May-1999	1200	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Vista del Lago station	12-Jul-1999	1210	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Vista del Lago station	12-Jul-1999	1220	<0.270	<0.120	<0.190	E0.027	E0.010	<0.054	<0.05	<0.032
SWR center of minimum pool	9-Sep-1998	1630	<1.080	<0.480	<0.760	<0.224	<0.176	<0.216	<0.20	<0.128
SWR center of minimum pool	9-Sep-1998	1640	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR center of minimum pool	3-Nov-1998	1140	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR center of minimum pool	3-Nov-1998	1150	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR center of minimum pool	6-Jan-1999	1030	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR center of minimum pool	1-Mar-1999	1130	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR center of minimum pool	3-May-1999	1235	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR center of minimum pool	3-May-1999	1240	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR center of minimum pool	12-Jul-1999	1240	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR center of minimum pool	12-Jul-1999	1250	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR center of minimum pool	20-Sep-1999	1220	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR center of minimum pool	20-Sep-1999	1230	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near recreation area	10-Sep-1998	1010	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Isopropylbenzene
Site name	Date	Time	77613 (µg/L)	77221 (µg/L)	34551 (µg/L)	77222 (µg/L)	77226 (µg/L)	34566 (µg/L)	34571 (µg/L)	77223 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near recreation area	3-Nov-1998	1205	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near recreation area	3-Nov-1998	1215	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near recreation area	6-Jan-1999	1100	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near recreation area	1-Mar-1999	1220	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near recreation area	3-May-1999	1310	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near recreation area	3-May-1999	1320	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near recreation area	12-Jul-1999	1320	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near recreation area	12-Jul-1999	1330	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR minimum pool boundary east	10-Sep-1998	1240	<1.080	<0.480	<0.760	<0.224	<0.176	<0.216	<0.20	<0.128
SWR minimum pool boundary east	10-Sep-1998	1250	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR minimum pool boundary east	3-Nov-1998	1340	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR minimum pool boundary east	6-Jan-1999	1130	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR minimum pool boundary east	2-Mar-1999	840	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR minimum pool boundary east	3-May-1999	1350	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR minimum pool boundary east	3-May-1999	1400	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR minimum pool boundary east	12-Jul-1999	1420	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.266	<0.124	<0.188	<0.056	<0.044	<0.054	<0.05	<0.032
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR east end reservoir fill boundary	3-May-1999	1440	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.270	0.025	<0.190	E0.089	E0.025	<0.054	<0.05	<0.032
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.266	<0.124	<0.188	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.266	<0.124	<0.188	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Isopropylbenzene
Site name	Date	Time	77613 (µg/L)	77221 (µg/L)	34551 (µg/L)	77222 (µg/L)	77226 (µg/L)	34566 (µg/L)	34571 (µg/L)	77223 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.266	<0.124	<0.188	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.266	<0.124	<0.188	E0.010	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.540	<0.240	<0.380	<0.112	<0.088	<0.108	<0.10	<0.064
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.270	<0.120	<0.190	<0.056	<0.044	<0.054	<0.05	<0.032

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Butylbenzene	<i>N</i> -Propylbenzene	1,2-Dichlorobenzene	sec- Butylbenzene	<i>tert</i> - Butylbenzene	Benzene	Bromobenzene	Bromoethene
Site name	Date	Time	77342 (µg/L)	77224 (µg/L)	34536 (µg/L)	77350 (µg/L)	77353 (µg/L)	34030 (µg/L)	81555 (µg/L)	50002 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.760	<0.168	<0.192	<0.192	<0.400	<0.400	<0.144	<0.4
SWR near pump tower	9-Sep-1998	1600	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near pump tower	3-Nov-1998	1030	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near pump tower	3-Nov-1998	1040	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near pump tower	6-Jan-1999	930	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near pump tower	1-Mar-1999	1030	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near pump tower	1-Mar-1999	1045	<0.190	<0.042	<0.048	<0.048	<0.100	E0.010	<0.036	<0.1
SWR near pump tower	3-May-1999	1115	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near pump tower	3-May-1999	1130	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near pump tower	12-Jul-1999	1120	<0.190	<0.042	<0.048	<0.048	<0.100	E0.007	<0.036	<0.1
SWR near pump tower	12-Jul-1999	1130	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near pump tower	20-Sep-1999	1140	<0.190	<0.042	<0.048	<0.032	<0.060	<0.035	<0.036	<0.1
SWR near pump tower	20-Sep-1999	1150	<0.190	<0.042	<0.048	<0.032	<0.060	<0.035	<0.036	<0.1
SWR near Vista del Lago station	10-Sep-1998	845	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near Vista del Lago station	10-Sep-1998	900	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near Vista del Lago station	3-Nov-1998	1110	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near Vista del Lago station	6-Jan-1999	1000	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near Vista del Lago station	1-Mar-1999	1100	<0.190	<0.042	<0.048	<0.048	<0.100	E0.010	<0.036	<0.1
SWR near Vista del Lago station	3-May-1999	1150	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near Vista del Lago station	3-May-1999	1200	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near Vista del Lago station	12-Jul-1999	1210	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near Vista del Lago station	12-Jul-1999	1220	<0.190	<0.042	<0.048	<0.048	<0.100	E0.015	<0.036	<0.1
SWR center of minimum pool	9-Sep-1998	1630	<0.760	<0.168	<0.192	<0.192	<0.400	<0.400	<0.144	<0.4
SWR center of minimum pool	9-Sep-1998	1640	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR center of minimum pool	3-Nov-1998	1140	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR center of minimum pool	3-Nov-1998	1150	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR center of minimum pool	6-Jan-1999	1030	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR center of minimum pool	1-Mar-1999	1130	<0.190	<0.042	<0.048	<0.048	<0.100	E0.007	<0.036	<0.1
SWR center of minimum pool	3-May-1999	1235	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR center of minimum pool	3-May-1999	1240	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR center of minimum pool	12-Jul-1999	1240	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR center of minimum pool	12-Jul-1999	1250	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR center of minimum pool	20-Sep-1999	1220	<0.190	<0.042	<0.048	<0.032	<0.060	<0.035	<0.036	<0.1
SWR center of minimum pool	20-Sep-1999	1230	<0.190	<0.042	<0.048	<0.032	<0.060	<0.035	<0.036	<0.1
SWR near recreation area	10-Sep-1998	1010	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE Site name	Date	Time	Butylbenzene 77342 (µg/L)	<i>N</i> -Propylbenzene 77224 (µg/L)	1,2-Dichlorobenzene 34536 (µg/L)	sec- Butylbenzene 77350 (µg/L)	tert- Butylbenzene 77353 (µg/L)	Benzene 34030 (µg/L)	Bromobenzene 81555 (µg/L)	Bromoethene 50002 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near recreation area	3-Nov-1998	1205	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near recreation area	3-Nov-1998	1215	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near recreation area	6-Jan-1999	1100	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near recreation area	1-Mar-1999	1220	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near recreation area	3-May-1999	1310	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near recreation area	3-May-1999	1320	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near recreation area	12-Jul-1999	1320	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near recreation area	12-Jul-1999	1330	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR minimum pool boundary east	10-Sep-1998	1240	<0.760	<0.168	<0.192	<0.192	<0.400	<0.400	<0.144	<0.4
SWR minimum pool boundary east	10-Sep-1998	1250	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR minimum pool boundary east	3-Nov-1998	1340	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR minimum pool boundary east	6-Jan-1999	1130	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR minimum pool boundary east	2-Mar-1999	840	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR minimum pool boundary east	3-May-1999	1350	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR minimum pool boundary east	3-May-1999	1400	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR minimum pool boundary east	12-Jul-1999	1420	<0.190	<0.042	<0.048	<0.048	<0.100	E0.007	<0.036	<0.1
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.186	<0.168	<0.048	<0.048	<0.096	<0.100	<0.036	<0.1
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.190	<0.042	<0.048	<0.048	<0.100	E0.008	<0.036	<0.1
SWR east end reservoir fill boundary	3-May-1999	1440	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.190	E0.010	<0.048	<0.032	<0.060	E0.041	<0.036	<0.1
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.186	<0.042	<0.048	<0.048	<0.096	<0.100	<0.036	<0.1
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.186	<0.042	<0.048	<0.048	<0.096	<0.100	<0.036	<0.1
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Butylbenzene	<i>N</i> -Propylbenzene	1,2-Dichlorobenzene	sec- Butylbenzene	<i>tert</i> - Butylbenzene	Benzene	Bromobenzene	Bromoethene
Site name	Date	Time	77342 (µg/L)	77224 (µg/L)	34536 (µg/L)	77350 (µg/L)	77353 (µg/L)	34030 (µg/L)	81555 (µg/L)	50002 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.190	<0.042	<0.048	<0.048	<0.100	E0.008	<0.036	<0.1
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.190	<0.042	<0.048	<0.048	<0.100	0E.011	<0.036	<0.1
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.190	<0.042	<0.048	<0.032	<0.060	E0.011	<0.036	<0.1
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.190	<0.042	<0.048	<0.032	<0.060	<0.035	<0.036	<0.1
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.186	<0.042	<0.048	<0.048	<0.096	<0.100	<0.036	<0.1
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.186	<0.042	<0.048	<0.048	<0.096	<0.100	<0.036	<0.1
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.190	<0.042	<0.048	<0.048	<0.100	E0.010	<0.036	<0.1
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.380	<0.084	<0.096	<0.096	<0.200	E0.020	<0.072	<0.2
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.190	<0.042	<0.048	<0.048	<0.100	E0.012	<0.036	<0.1
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.190	<0.042	<0.048	<0.032	<0.060	<0.035	<0.036	<0.1
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.380	<0.084	<0.096	<0.096	<0.200	<0.200	<0.072	<0.2
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.190	<0.042	<0.048	<0.048	<0.100	E0.011	<0.036	<0.1
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.190	<0.042	<0.048	<0.048	<0.100	<0.100	<0.036	<0.1
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.190	<0.042	<0.048	<0.032	<0.060	E0.012	<0.036	<0.1
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.190	<0.042	<0.048	<0.032	<0.060	0.035	<0.036	<0.1

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE Site name	Date	Time	Bromoform 32104 (µg/L)	Carbon disulfide 77041 (µg/L)	Tetrachloromethane 32102 (µg/L)	Chlorobenzene 34301 (µg/L)	Dibromochloromethane 32105 (µg/L)	Chloroethane 34311 (µg/L)	Chloroform 32106 (µg/L)	cis- 1,2-Dichloroethylene 77093 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.400	<1.48	<0.352	<0.112	<0.720	<0.48	E0.099	<0.152
SWR near pump tower	9-Sep-1998	1600	0.231	<0.74	<0.176	<0.056	1.410	<0.24	1.540	<0.076
SWR near pump tower	3-Nov-1998	1030	<0.200	<0.74	<0.176	<0.056	0.557	<0.24	0.669	<0.076
SWR near pump tower	3-Nov-1998	1040	<0.200	<0.74	<0.176	<0.056	0.171	<0.24	0.252	<0.076
SWR near pump tower	6-Jan-1999	930	E0.220	<0.74	<0.176	<0.056	1.403	<0.24	0.964	<0.076
SWR near pump tower	1-Mar-1999	1030	<0.100	<0.37	<0.088	<0.028	0.171	<0.12	0.391	<0.038
SWR near pump tower	1-Mar-1999	1045	<0.100	E0.37	<0.088	<0.028	0.073	<0.12	0.120	<0.038
SWR near pump tower	3-May-1999	1115	<0.100	<0.37	<0.088	<0.028	0.215	<0.12	0.321	<0.038
SWR near pump tower	3-May-1999	1130	E0.080	<0.37	<0.088	<0.028	0.449	<0.12	0.324	<0.038
SWR near pump tower	12-Jul-1999	1120	<0.100	E0.03	<0.088	<0.028	<0.180	<0.12	E0.071	<0.038
SWR near pump tower	12-Jul-1999	1130	0E.044	<0.37	<0.088	<0.028	0.142	<0.12	0.102	<0.038
SWR near pump tower	20-Sep-1999	1140	<0.060	E0.08	<0.060	<0.028	<0.180	<0.12	0.116	<0.038
SWR near pump tower	20-Sep-1999	1150	<0.060	<0.07	<0.060	<0.028	0.118	<0.12	0.176	<0.038
SWR near Vista del Lago station	10-Sep-1998	845	<0.200	E0.04	<0.176	<0.056	<0.360	<0.24	<0.104	<0.076
SWR near Vista del Lago station	10-Sep-1998	900	<0.200	<0.74	<0.176	<0.056	0.088	<0.24	E0.140	<0.076
SWR near Vista del Lago station	3-Nov-1998	1110	<0.100	<0.37	<0.088	<0.028	0.066	<0.12	0.136	<0.038
SWR near Vista del Lago station	6-Jan-1999	1000	<0.200	<0.74	<0.176	<0.056	0.110	<0.24	E0.130	<0.076
SWR near Vista del Lago station	1-Mar-1999	1100	<0.100	<0.37	<0.088	<0.028	0.129	<0.12	0.211	<0.038
SWR near Vista del Lago station	3-May-1999	1150	<0.100	<0.37	<0.088	<0.028	0.145	<0.12	0.245	<0.038
SWR near Vista del Lago station	3-May-1999	1200	<0.100	<0.37	<0.088	<0.028	0.083	<0.12	E0.086	<0.038
SWR near Vista del Lago station	12-Jul-1999	1210	E0.043	<0.37	<0.088	<0.028	0.202	<0.12	0.316	<0.038
SWR near Vista del Lago station	12-Jul-1999	1220	<0.100	<0.37	<0.088	<0.028	0.123	<0.12	E0.086	<0.038
SWR center of minimum pool	9-Sep-1998	1630	<0.400	<1.48	<0.352	<0.112	0.720	<0.48	<0.208	<0.152
SWR center of minimum pool	9-Sep-1998	1640	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	0.270	<0.076
SWR center of minimum pool	3-Nov-1998	1140	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	E0.150	<0.076
SWR center of minimum pool	3-Nov-1998	1150	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	E0.130	<0.076
SWR center of minimum pool	6-Jan-1999	1030	<0.200	<0.74	<0.176	<0.056	0.110	<0.24	E0.140	<0.076
SWR center of minimum pool	1-Mar-1999	1130	<0.100	<0.37	<0.088	<0.028	0.093	<0.12	0.167	<0.038
SWR center of minimum pool	3-May-1999	1235	<0.100	<0.37	<0.088	<0.028	0.107	<0.12	0.196	<0.038
SWR center of minimum pool	3-May-1999	1240	<0.100	<0.37	<0.088	<0.028	0.091	<0.12	E0.092	<0.038
SWR center of minimum pool	12-Jul-1999	1240	<0.100	E0.04	<0.088	<0.028	<0.180	<0.12	E0.017	<0.038
SWR center of minimum pool	12-Jul-1999	1250	E0.069	<0.37	<0.088	<0.028	0.334	<0.12	0.332	<0.038
SWR center of minimum pool	20-Sep-1999	1220	<0.060	E0.07	<0.060	<0.028	<0.180	<0.12	0.118	<0.038
SWR center of minimum pool	20-Sep-1999	1230	<0.060	<0.07	<0.060	<0.028	<0.180	<0.12	E0.095	<0.038
SWR near recreation area	10-Sep-1998	1010	<0.200	E0.05	<0.176	<0.056	<0.360	<0.24	<0.104	<0.076

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE Site name	Date	Time	Bromoform 32104 (µg/L)	Carbon disulfide 77041 (µg/L)	Tetrachloromethane 32102 (µg/L)	Chlorobenzene 34301 (µg/L)	Dibromochloromethane 32105 (µg/L)	Chloroethane 34311 (µg/L)	Chloroform 32106 (µg/L)	cis- 1,2-Dichloroethylene 77093 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.200	<0.74	<0.176	<0.056	0.130	<0.24	0.215	<0.076
SWR near recreation area	3-Nov-1998	1205	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	E0.140	<0.076
SWR near recreation area	3-Nov-1998	1215	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	E0.140	<0.076
SWR near recreation area	6-Jan-1999	1100	<0.200	<0.74	<0.176	<0.056	0.097	<0.24	E0.120	<0.076
SWR near recreation area	1-Mar-1999	1220	<0.100	<0.37	<0.088	<0.028	0.107	<0.12	0.180	<0.038
SWR near recreation area	3-May-1999	1310	<0.100	<0.37	<0.088	<0.028	0.095	<0.12	0.212	<0.038
SWR near recreation area	3-May-1999	1320	<0.100	<0.37	<0.088	<0.028	0.120	<0.12	0.124	<0.038
SWR near recreation area	12-Jul-1999	1320	<0.100	E0.03	<0.088	<0.028	<0.180	<0.12	E0.018	<0.038
SWR near recreation area	12-Jul-1999	1330	E0.051	<0.37	<0.088	<0.028	0.199	<0.12	0.141	<0.038
SWR minimum pool boundary east	10-Sep-1998	1240	<0.400	E0.06	<0.352	<0.112	<0.720	<0.48	<0.208	<0.152
SWR minimum pool boundary east	10-Sep-1998	1250	<0.200	<0.74	<0.176	<0.056	0.140	<0.24	0.274	<0.076
SWR minimum pool boundary east	3-Nov-1998	1340	<0.100	<0.37	<0.088	<0.028	0.079	<0.12	0.156	<0.038
SWR minimum pool boundary east	6-Jan-1999	1130	<0.200	<0.74	<0.176	<0.056	0.088	<0.24	E0.100	<0.076
SWR minimum pool boundary east	2-Mar-1999	840	<0.100	<0.37	<0.088	<0.028	0.096	<0.12	0.164	<0.038
SWR minimum pool boundary east	3-May-1999	1350	<0.100	<0.37	<0.088	<0.028	0.144	<0.12	0.207	<0.038
SWR minimum pool boundary east	3-May-1999	1400	<0.100	<0.37	<0.088	<0.028	0.073	<0.12	E0.078	<0.038
SWR minimum pool boundary east	12-Jul-1999	1420	E0.047	<0.37	<0.088	<0.028	0.213	<0.12	0.271	<0.038
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.104	<0.37	<0.088	<0.028	<0.182	<0.12	E0.087	<0.038
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.100	<0.37	<0.088	<0.028	0.063	<0.12	0.114	<0.038
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	E0.110	<0.076
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.100	<0.37	<0.088	<0.028	0.069	<0.12	0.112	<0.038
SWR east end reservoir fill boundary	3-May-1999	1440	<0.100	<0.37	<0.088	<0.028	0.030	<0.12	E0.037	<0.038
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.100	E0.01	<0.088	<0.028	0.038	<0.12	E0.027	<0.038
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.060	<0.07	<0.060	<0.028	<0.180	<0.12	E0.067	<0.038
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.200	E0.06	<0.176	<0.056	<0.360	<0.24	<0.104	<0.076
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	E0.130	<0.076
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.100	<0.37	<0.088	<0.028	0.076	<0.12	0.142	<0.038
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.200	<0.74	<0.176	<0.056	0.083	<0.24	E0.100	<0.076
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.100	<0.37	<0.088	<0.028	0.095	<0.12	0.161	<0.038
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.100	<0.37	<0.088	<0.028	0.086	<0.12	E0.091	<0.038
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	0.101	<0.37	<0.088	<0.028	0.418	<0.12	0.280	<0.038
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.104	<0.37	<0.088	<0.028	<0.182	<0.12	E0.015	<0.038
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.104	<0.37	<0.088	<0.028	<0.182	<0.12	E0.030	<0.038
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	E0.019	<0.038
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	E0.020	<0.076
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE Site name	Date	Time	Bromoform 32104 (µg/L)	Carbon disulfide 77041 (µg/L)	Tetrachloromethane 32102 (µg/L)	Chlorobenzene 34301 (µg/L)	Dibromochloromethane 32105 (µg/L)	Chloroethane 34311 (µg/L)	Chloroform 32106 (µg/L)	cis- 1,2-Dichloroethylene 77093 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	E0.015	<0.038
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.060	<0.07	<0.060	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.060	<0.07	<0.060	<0.028	<0.180	<0.12	E0.017	<0.038
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.104	<0.37	<0.088	<0.028	<0.182	<0.12	E0.015	<0.038
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.104	<0.37	<0.088	<0.028	<0.182	<0.12	E0.024	<0.038
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	<0.104	<0.076
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	<0.038
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	E0.011	<0.038
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	<0.104	<0.076
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.200	<0.74	<0.176	<0.056	<0.360	<0.24	<0.104	<0.076
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	E0.014
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.100	<0.37	<0.088	<0.028	<0.180	<0.12	<0.052	E0.023
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.200	E0.05	<0.176	<0.056	<0.360	<0.24	E0.028	E0.029
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.060	<0.07	<0.060	<0.028	<0.180	<0.12	<0.052	E0.021
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	4.114	<0.74	E0.035	<0.056	24.410	<0.24	13.220	<0.076
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	3.162	<0.37	E0.063	<0.028	24.800	E0.03	17.380	<0.038
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	6.085	<0.37	E0.043	<0.028	28.890	E0.05	12.840	<0.038
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	11.240	E0.02	E0.038	<0.028	44.900	<0.12	16.980	<0.038
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	0.243	<0.37	<0.060	<0.028	2.278	<0.12	6.168	<0.038
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.060	<0.37	<0.060	<0.028	<0.244	<0.12	0.669	<0.038

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			<i>cis</i> - 1,3-Dichloropropene	1,2-Dibromo-3-chloropropane						
Site name	Date	Time	34704 (µg/L)	82625 (µg/L)	30217 (µg/L)	32101 (µg/L)	34668 (µg/L)	81577 (µg/L)	77562 (µg/L)	34516 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.360	<0.840	<0.20	E0.065	<0.560	<0.392	<0.176	<0.520
SWR near pump tower	9-Sep-1998	1600	<0.180	<0.420	E0.04	1.760	<0.280	<0.196	<0.088	<0.260
SWR near pump tower	3-Nov-1998	1030	<0.180	<0.420	<0.10	0.858	<0.280	<0.196	<0.088	<0.260
SWR near pump tower	3-Nov-1998	1040	<0.180	<0.420	<0.10	0.261	<0.280	<0.196	<0.088	<0.260
SWR near pump tower	6-Jan-1999	930	<0.180	<0.420	<0.10	1.660	<0.280	<0.196	<0.088	<0.260
SWR near pump tower	1-Mar-1999	1030	<0.090	<0.210	<0.05	0.301	<0.140	<0.098	<0.044	<0.130
SWR near pump tower	1-Mar-1999	1045	<0.090	<0.210	<0.05	0.130	<0.140	<0.098	<0.044	<0.130
SWR near pump tower	3-May-1999	1115	<0.090	<0.210	<0.05	0.254	<0.140	<0.098	<0.044	<0.130
SWR near pump tower	3-May-1999	1130	<0.090	<0.210	<0.05	0.503	<0.140	<0.098	<0.044	<0.130
SWR near pump tower	12-Jul-1999	1120	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
SWR near pump tower	12-Jul-1999	1130	<0.090	<0.210	<0.05	0.140	<0.140	<0.098	<0.044	<0.130
SWR near pump tower	20-Sep-1999	1140	<0.090	<0.210	<0.05	E0.037	<0.270	<0.100	<0.030	<0.090
SWR near pump tower	20-Sep-1999	1150	<0.090	<0.210	<0.05	0.129	<0.270	<0.100	<0.030	<0.090
SWR near Vista del Lago station	10-Sep-1998	845	<0.180	<0.420	<0.10	<0.196	<0.280	<0.196	<0.088	<0.260
SWR near Vista del Lago station	10-Sep-1998	900	<0.180	<0.420	<0.10	E0.110	<0.280	<0.196	<0.088	<0.260
SWR near Vista del Lago station	3-Nov-1998	1110	<0.090	<0.210	<0.05	0.102	<0.140	<0.098	<0.044	<0.130
SWR near Vista del Lago station	6-Jan-1999	1000	<0.180	<0.420	<0.10	E0.130	<0.280	<0.196	<0.088	<0.260
SWR near Vista del Lago station	1-Mar-1999	1100	<0.090	<0.210	<0.05	0.224	<0.140	<0.098	<0.044	<0.130
SWR near Vista del Lago station	3-May-1999	1150	<0.090	<0.210	<0.05	0.186	<0.140	<0.098	<0.044	<0.130
SWR near Vista del Lago station	3-May-1999	1200	<0.090	<0.210	<0.05	E0.099	<0.140	<0.098	<0.044	<0.130
SWR near Vista del Lago station	12-Jul-1999	1210	<0.090	<0.210	<0.05	0.216	<0.140	<0.098	<0.044	<0.130
SWR near Vista del Lago station	12-Jul-1999	1220	<0.090	<0.210	<0.05	0.114	<0.140	<0.098	<0.044	<0.130
SWR center of minimum pool	9-Sep-1998	1630	<0.360	<0.840	<0.20	<0.192	<0.560	<0.392	<0.176	<0.520
SWR center of minimum pool	9-Sep-1998	1640	<0.180	<0.420	<0.10	<0.096	<0.280	<0.196	<0.088	<0.260
SWR center of minimum pool	3-Nov-1998	1140	<0.180	<0.420	<0.10	E0.110	<0.280	<0.196	<0.088	<0.260
SWR center of minimum pool	3-Nov-1998	1150	<0.180	<0.420	<0.10	E0.110	<0.280	<0.196	<0.088	<0.260
SWR center of minimum pool	6-Jan-1999	1030	<0.180	<0.420	<0.10	E0.140	<0.280	<0.196	<0.088	<0.260
SWR center of minimum pool	1-Mar-1999	1130	<0.090	<0.210	<0.05	0.155	<0.140	<0.098	<0.044	<0.130
SWR center of minimum pool	3-May-1999	1235	<0.090	<0.210	<0.05	0.142	<0.140	<0.098	<0.044	<0.130
SWR center of minimum pool	3-May-1999	1240	<0.090	<0.210	<0.05	0.108	<0.140	<0.098	<0.044	<0.130
SWR center of minimum pool	12-Jul-1999	1240	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
SWR center of minimum pool	12-Jul-1999	1250	<0.090	<0.210	<0.05	0.329	<0.140	<0.098	<0.044	<0.130
SWR center of minimum pool	20-Sep-1999	1220	<0.090	<0.210	<0.05	<0.048	<0.270	<0.100	<0.030	<0.090
SWR center of minimum pool	20-Sep-1999	1230	<0.090	<0.210	<0.05	E0.052	<0.270	<0.100	<0.030	<0.090
SWR near recreation area	10-Sep-1998	1010	<0.180	<0.420	<0.10	0.096	<0.280	<0.196	<0.088	<0.260

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			<i>cis</i> - 1,3-Dichloropropene	1,2-Dibromo-3-chloropropane						
Site name	Date	Time	34704 (µg/L)	82625 (µg/L)	30217 (µg/L)	32101 (µg/L)	34668 (µg/L)	81577 (µg/L)	77562 (µg/L)	34516 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.180	<0.420	<0.10	E0.160	<0.280	<0.196	<0.088	<0.260
SWR near recreation area	3-Nov-1998	1205	<0.180	<0.420	<0.10	E0.110	<0.280	<0.196	<0.088	<0.260
SWR near recreation area	3-Nov-1998	1215	<0.180	<0.420	<0.10	E0.110	<0.280	<0.196	<0.088	<0.260
SWR near recreation area	6-Jan-1999	1100	<0.180	<0.420	<0.10	E0.120	<0.280	<0.196	<0.088	<0.260
SWR near recreation area	1-Mar-1999	1220	<0.090	<0.210	<0.05	0.180	<0.140	<0.098	<0.044	<0.130
SWR near recreation area	3-May-1999	1310	<0.090	<0.210	<0.05	0.130	<0.140	<0.098	<0.044	<0.130
SWR near recreation area	3-May-1999	1320	<0.090	<0.210	<0.05	0.145	<0.140	<0.098	<0.044	<0.130
SWR near recreation area	12-Jul-1999	1320	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
SWR near recreation area	12-Jul-1999	1330	<0.090	<0.210	<0.05	0.186	<0.140	<0.098	<0.044	<0.130
SWR minimum pool boundary east	10-Sep-1998	1240	<0.360	<0.840	<0.20	<0.192	<0.560	<0.392	<0.176	<0.520
SWR minimum pool boundary east	10-Sep-1998	1250	<0.180	<0.420	<0.10	E0.150	<0.280	<0.196	<0.088	<0.260
SWR minimum pool boundary east	3-Nov-1998	1340	<0.090	<0.210	<0.05	0.125	<0.140	<0.098	<0.044	<0.130
SWR minimum pool boundary east	6-Jan-1999	1130	<0.180	<0.420	<0.10	E0.110	<0.280	<0.196	<0.088	<0.260
SWR minimum pool boundary east	2-Mar-1999	840	<0.090	<0.210	<0.05	0.165	<0.140	<0.098	<0.044	<0.130
SWR minimum pool boundary east	3-May-1999	1350	<0.090	<0.210	<0.05	0.191	<0.140	<0.098	<0.044	<0.130
SWR minimum pool boundary east	3-May-1999	1400	<0.090	<0.210	<0.05	E0.082	<0.140	<0.098	<0.044	<0.130
SWR minimum pool boundary east	12-Jul-1999	1420	<0.090	<0.210	<0.05	0.216	<0.140	<0.098	<0.044	<0.130
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.092	<0.214	<0.05	E0.055	<0.138	<0.098	<0.044	<0.132
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.090	<0.210	<0.05	E0.083	<0.140	<0.098	<0.044	<0.130
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.180	<0.420	<0.10	E0.100	<0.280	<0.196	<0.088	<0.260
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.090	<0.210	<0.05	0.109	<0.140	<0.098	<0.044	<0.130
SWR east end reservoir fill boundary	3-May-1999	1440	<0.090	<0.210	<0.05	E0.038	<0.140	<0.098	<0.044	<0.130
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.090	<0.210	<0.05	E0.031	<0.140	<0.098	<0.044	<0.130
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.090	<0.210	<0.05	E0.038	<0.270	<0.100	<0.030	<0.090
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.180	<0.420	<0.10	<0.096	<0.280	<0.196	<0.088	<0.260
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.180	<0.420	<0.10	E0.088	<0.280	<0.196	<0.088	<0.260
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.090	<0.210	<0.05	0.110	<0.140	<0.098	<0.044	<0.130
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.180	<0.420	<0.10	E0.100	<0.280	<0.196	<0.088	<0.260
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.090	<0.210	<0.05	0.161	<0.140	<0.098	<0.044	<0.130
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.090	<0.210	<0.05	E0.098	<0.140	<0.098	<0.044	<0.130
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.090	<0.210	<0.05	0.407	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.092	<0.214	<0.05	<0.048	<0.138	<0.098	<0.044	<0.132
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.092	<0.214	<0.05	<0.048	<0.138	<0.098	<0.044	<0.132
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.180	<0.420	<0.10	<0.096	<0.280	<0.196	<0.088	<0.260
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			<i>cis</i> - 1,3-Dichloropropene	1,2-Dibromo-3-chloropropane						
Site name	Date	Time	34704 (µg/L)	82625 (µg/L)	30217 (µg/L)	32101 (µg/L)	34668 (µg/L)	81577 (µg/L)	77562 (µg/L)	34516 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.090	<0.210	<0.05	<0.048	<0.270	<0.100	<0.030	<0.090
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.090	<0.210	<0.05	<0.048	<0.270	<0.100	<0.030	<0.090
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.092	<0.214	<0.05	<0.048	<0.138	<0.098	<0.044	<0.132
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.092	<0.214	<0.05	<0.048	<0.138	<0.098	<0.044	<0.132
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.180	<0.420	<0.10	<0.096	<0.280	<0.196	<0.088	<0.260
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.180	<0.420	<0.10	<0.096	<0.280	<0.196	<0.088	<0.260
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.180	<0.420	<0.10	<0.096	<0.280	<0.196	<0.088	<0.260
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.090	<0.210	<0.05	<0.048	<0.026	<0.098	<0.044	<0.130
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.090	<0.210	<0.05	<0.048	<0.140	<0.098	<0.044	<0.130
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.180	<0.420	<0.10	<0.096	<0.280	<0.196	<0.088	<0.260
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.090	<0.210	<0.05	<0.048	E0.065	<0.100	<0.030	<0.090
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.180	<0.420	<0.10	26.590	<0.280	<0.196	<0.088	<0.260
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.090	<0.210	<0.05	32.130	<0.140	<0.098	<0.044	<0.130
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.090	<0.210	<0.05	26.780	<0.140	<0.098	<0.044	<0.130
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.090	<0.210	<0.05	36.860	<0.140	<0.098	<0.044	<0.130
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.090	<0.210	<0.05	4.380	<0.270	<0.100	<0.030	<0.090
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.090	<0.210	<0.05	0.355	<0.270	<0.100	<0.030	<0.090

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Hexachloroethane	Diethyl ether	Ethyl tert -butyl ether	tert- Pentyl methyl ether	Ethylbenzene	1,1,2-Trichlorotrifluoroethane	Tetrahydrofuran	Hexachlorobutadiene
Site name	Date	Time	34396 (µg/L)	81576 (µg/L)	50004 (µg/L)	50005 (µg/L)	34371 (µg/L)	77652 (µg/L)	81607 (µg/L)	39702 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<1.440	<0.68	<0.216	<0.440	<0.12	<0.128	<36.00	<0.560
SWR near pump tower	9-Sep-1998	1600	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near pump tower	3-Nov-1998	1030	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near pump tower	3-Nov-1998	1040	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near pump tower	6-Jan-1999	930	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near pump tower	1-Mar-1999	1030	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near pump tower	1-Mar-1999	1045	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near pump tower	3-May-1999	1115	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near pump tower	3-May-1999	1130	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near pump tower	12-Jul-1999	1120	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near pump tower	12-Jul-1999	1130	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near pump tower	20-Sep-1999	1140	<0.190	<0.17	<0.054	<0.110	E0.01	<0.060	<2.20	<0.140
SWR near pump tower	20-Sep-1999	1150	<0.190	<0.17	<0.054	<0.110	<0.03	<0.060	<2.20	<0.140
SWR near Vista del Lago station	10-Sep-1998	845	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near Vista del Lago station	10-Sep-1998	900	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near Vista del Lago station	3-Nov-1998	1110	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near Vista del Lago station	6-Jan-1999	1000	<0.720	<0.34	<0.108	<0.220	0.06	<0.064	<18.00	<0.280
SWR near Vista del Lago station	1-Mar-1999	1100	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near Vista del Lago station	3-May-1999	1150	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near Vista del Lago station	3-May-1999	1200	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near Vista del Lago station	12-Jul-1999	1210	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near Vista del Lago station	12-Jul-1999	1220	<0.360	<0.17	<0.054	<0.110	E0.02	<0.032	<9.00	<0.140
SWR center of minimum pool	9-Sep-1998	1630	<1.440	<0.68	<0.216	<0.440	<0.12	<0.128	<36.00	<0.560
SWR center of minimum pool	9-Sep-1998	1640	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR center of minimum pool	3-Nov-1998	1140	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR center of minimum pool	3-Nov-1998	1150	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR center of minimum pool	6-Jan-1999	1030	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR center of minimum pool	1-Mar-1999	1130	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR center of minimum pool	3-May-1999	1235	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR center of minimum pool	3-May-1999	1240	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR center of minimum pool	12-Jul-1999	1240	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR center of minimum pool	12-Jul-1999	1250	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR center of minimum pool	20-Sep-1999	1220	<0.190	<0.17	<0.054	<0.110	<0.03	<0.060	<2.20	<0.140
SWR center of minimum pool	20-Sep-1999	1230	<0.190	<0.17	<0.054	<0.110	<0.03	<0.060	<2.20	<0.140
SWR near recreation area	10-Sep-1998	1010	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Hexachloroethane	Diethyl ether	Ethyl tert -butyl ether	tert- Pentyl methyl ether	Ethylbenzene	1,1,2-Trichlorotrifluoroethane	Tetrahydrofuran	Hexachlorobutadiene
Site name	Date	Time	34396 (µg/L)	81576 (µg/L)	50004 (µg/L)	50005 (µg/L)	34371 (µg/L)	77652 (µg/L)	81607 (µg/L)	39702 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near recreation area	3-Nov-1998	1205	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near recreation area	3-Nov-1998	1215	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near recreation area	6-Jan-1999	1100	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near recreation area	1-Mar-1999	1220	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near recreation area	3-May-1999	1310	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near recreation area	3-May-1999	1320	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near recreation area	12-Jul-1999	1320	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near recreation area	12-Jul-1999	1330	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR minimum pool boundary east	10-Sep-1998	1240	<1.440	<0.68	<0.216	<0.440	<0.12	<0.128	<36.00	<0.560
SWR minimum pool boundary east	10-Sep-1998	1250	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR minimum pool boundary east	3-Nov-1998	1340	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR minimum pool boundary east	6-Jan-1999	1130	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR minimum pool boundary east	2-Mar-1999	840	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR minimum pool boundary east	3-May-1999	1350	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR minimum pool boundary east	3-May-1999	1400	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR minimum pool boundary east	12-Jul-1999	1420	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.362	<0.17	<0.054	<0.112	<0.03	<0.032	<8.79	<0.142
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR east end reservoir fill boundary	3-May-1999	1440	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.190	<0.17	<0.054	<0.110	E0.04	<0.060	<2.20	<0.140
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.362	<0.17	<0.054	<0.112	<0.03	<0.032	<8.79	<0.142
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.362	<0.17	<0.054	<0.112	<0.03	<0.032	<8.79	<0.142
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Hexachloroethane	Diethyl ether	Ethyl tert -butyl ether	tert- Pentyl methyl ether	Ethylbenzene	1,1,2-Trichlorotrifluoroethane	Tetrahydrofuran	Hexachlorobutadiene
Site name	Date	Time	34396 (µg/L)	81576 (µg/L)	50004 (µg/L)	50005 (µg/L)	34371 (µg/L)	77652 (µg/L)	81607 (µg/L)	39702 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.360	<0.17	<0.054	<0.110	E0.01	<0.032	<9.00	<0.140
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.190	<0.17	<0.054	<0.110	<0.03	<0.060	<2.20	<0.140
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.190	<0.17	<0.054	<0.110	<0.03	<0.060	<2.20	<0.140
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.362	<0.17	<0.054	<0.112	<0.03	<0.032	<8.79	<0.142
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.362	<0.17	<0.054	<0.112	<0.03	<0.032	<8.79	<0.142
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.190	<0.17	<0.054	<0.110	<0.03	<0.060	<2.20	<0.140
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.720	<0.34	<0.108	<0.220	<0.06	<0.064	<18.00	<0.280
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	E0.006	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.360	<0.17	<0.054	<0.110	<0.03	<0.032	<9.00	<0.140
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.190	<0.17	<0.054	<0.110	<0.03	<0.060	<2.20	<0.140
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.190	<0.17	<0.054	<0.110	<0.03	<0.060	<2.20	<0.140

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2,3,5-Tetramethylbenzene	Ethyl methacrylate	Methyl methacrylate	Ethyl acrylonitrile	Bromochloromethane	Methyl acrylate	Methyl iodide	tert- Butyl methyl ether
Site name	Date	Time	50000 (µg/L)	73570 (µg/L)	81597 (µg/L)	81593 (µg/L)	77297 (µg/L)	49991 (µg/L)	77424 (µg/L)	78032 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.80	<1.120	<1.40	<2.28	<0.176	<5.600	<0.840	<0.680
SWR near pump tower	9-Sep-1998	1600	<0.40	<0.560	<0.70	<1.14	E0.160	<2.800	<0.420	<0.340
SWR near pump tower	3-Nov-1998	1030	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR near pump tower	3-Nov-1998	1040	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR near pump tower	6-Jan-1999	930	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.250
SWR near pump tower	1-Mar-1999	1030	<0.20	<0.280	<0.35	<0.57	E0.013	<1.400	<0.210	0.209
SWR near pump tower	1-Mar-1999	1045	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.253
SWR near pump tower	3-May-1999	1115	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.112
SWR near pump tower	3-May-1999	1130	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.053
SWR near pump tower	12-Jul-1999	1120	<0.20	<0.280	<0.35	<0.57	E0.012	<1.400	<0.210	E0.100
SWR near pump tower	12-Jul-1999	1130	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.107
SWR near pump tower	20-Sep-1999	1140	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	E0.107
SWR near pump tower	20-Sep-1999	1150	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	E0.110
SWR near Vista del Lago station	10-Sep-1998	845	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR near Vista del Lago station	10-Sep-1998	900	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR near Vista del Lago station	3-Nov-1998	1110	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.110
SWR near Vista del Lago station	6-Jan-1999	1000	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.230
SWR near Vista del Lago station	1-Mar-1999	1100	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.225
SWR near Vista del Lago station	3-May-1999	1150	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.105
SWR near Vista del Lago station	3-May-1999	1200	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.063
SWR near Vista del Lago station	12-Jul-1999	1210	<0.20	<0.280	<0.35	<0.57	E0.049	<1.400	<0.210	E0.077
SWR near Vista del Lago station	12-Jul-1999	1220	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.277
SWR center of minimum pool	9-Sep-1998	1630	<0.80	<1.120	<1.40	<2.28	<0.176	<5.600	<0.840	<0.680
SWR center of minimum pool	9-Sep-1998	1640	<0.40	<0.560	<0.70	<1.14	E0.092	<2.800	<0.420	<0.340
SWR center of minimum pool	3-Nov-1998	1140	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR center of minimum pool	3-Nov-1998	1150	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR center of minimum pool	6-Jan-1999	1030	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.230
SWR center of minimum pool	1-Mar-1999	1130	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.212
SWR center of minimum pool	3-May-1999	1235	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	<0.170
SWR center of minimum pool	3-May-1999	1240	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.074
SWR center of minimum pool	12-Jul-1999	1240	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.098
SWR center of minimum pool	12-Jul-1999	1250	<0.20	<0.280	<0.35	<0.57	E0.029	<1.400	<0.210	E0.080
SWR center of minimum pool	20-Sep-1999	1220	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	E0.080
SWR center of minimum pool	20-Sep-1999	1230	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	E0.101
SWR near recreation area	10-Sep-1998	1010	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2,3,5-Tetramethylbenzene	Ethyl methacrylate	Methyl methacrylate	Ethyl acrylonitrile	Bromochloromethane	Methyl acrylate	Methyl iodide	tert- Butyl methyl ether
Site name	Date	Time	50000 (µg/L)	73570 (µg/L)	81597 (µg/L)	81593 (µg/L)	77297 (µg/L)	49991 (µg/L)	77424 (µg/L)	78032 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.40	<0.560	<0.70	<1.14	E0.020	<2.800	<0.420	<0.340
SWR near recreation area	3-Nov-1998	1205	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR near recreation area	3-Nov-1998	1215	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR near recreation area	6-Jan-1999	1100	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.220
SWR near recreation area	1-Mar-1999	1220	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.217
SWR near recreation area	3-May-1999	1310	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.108
SWR near recreation area	3-May-1999	1320	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	<0.170
SWR near recreation area	12-Jul-1999	1320	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.098
SWR near recreation area	12-Jul-1999	1330	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.085
SWR minimum pool boundary east	10-Sep-1998	1240	<0.80	<1.120	<1.40	<2.28	<0.176	<5.600	<0.840	<0.680
SWR minimum pool boundary east	10-Sep-1998	1250	<0.40	<0.560	<0.70	<1.14	E0.044	<2.800	<0.420	0.340
SWR minimum pool boundary east	3-Nov-1998	1340	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.120
SWR minimum pool boundary east	6-Jan-1999	1130	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.250
SWR minimum pool boundary east	2-Mar-1999	840	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.213
SWR minimum pool boundary east	3-May-1999	1350	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.092
SWR minimum pool boundary east	3-May-1999	1400	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.066
SWR minimum pool boundary east	12-Jul-1999	1420	<0.20	<0.280	<0.35	<0.57	E0.034	<1.400	<0.210	E0.078
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.24	<0.278	<0.35	<0.57	<0.044	<1.357	<0.208	<0.166
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	<0.170
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.310
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.219
SWR east end reservoir fill boundary	3-May-1999	1440	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.050
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.100
SWR east end reservoir fill boundary	20-Sep-1999	1250	E0.02	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	0.897
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.110
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.250
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.222
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	<0.170
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.20	<0.280	<0.35	<0.57	E0.011	<1.400	<0.210	E0.082
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.24	<0.278	<0.35	<0.57	<0.044	<1.357	<0.208	<0.166
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.24	<0.278	<0.35	<0.57	<0.044	<1.357	<0.208	0.114
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.208	<0.170
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.120
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.096

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			1,2,3,5-Tetramethylbenzene	Ethyl methacrylate	Methyl methacrylate	Ethyl acrylonitrile	Bromochloromethane	Methyl acrylate	Methyl iodide	tert- Butyl methyl ether
Site name	Date	Time	50000 (µg/L)	73570 (µg/L)	81597 (µg/L)	81593 (µg/L)	77297 (µg/L)	49991 (µg/L)	77424 (µg/L)	78032 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	<0.170
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.115
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.043
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.226
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	E0.045
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	0.181
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.24	<0.278	<0.35	<0.57	<0.044	<1.357	<0.208	<0.166
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.24	<0.278	<0.35	<0.57	<0.044	<1.357	<0.208	0.145
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	<0.340
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	<0.170
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	<0.170
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.166
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.100
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.180
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.194
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.360
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.360
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	0.315
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.056
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.155
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	E0.146
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.40	<0.560	<0.70	<1.14	<0.088	<2.800	<0.420	E0.240
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.166
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.048
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.20	<0.280	<0.35	<0.57	<0.044	<1.400	<0.210	E0.073
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	0.724
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.20	<0.180	<0.35	<0.60	<0.044	<1.400	<0.120	1.132

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Bromomethane	Chloromethane	Dichloromethane	2-Butanone	4-Methyl-2-pentanone	m- and p- Xylene	Naphthalene	2-Chlorotoluene
Site name	Date	Time	34413 (µg/L)	34418 (µg/L)	34423 (µg/L)	81595 (µg/L)	78133 (µg/L)	85795 (µg/L)	34696 (µg/L)	77275 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.600	<1.000	<1.520	<6.40	<1.480	<0.240	<1.00	<0.168
SWR near pump tower	9-Sep-1998	1600	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near pump tower	3-Nov-1998	1030	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near pump tower	3-Nov-1998	1040	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near pump tower	6-Jan-1999	930	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near pump tower	1-Mar-1999	1030	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near pump tower	1-Mar-1999	1045	<0.150	<0.250	<0.380	<1.60	<0.370	E0.015	<0.25	<0.042
SWR near pump tower	3-May-1999	1115	<0.150	E0.051	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near pump tower	3-May-1999	1130	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near pump tower	12-Jul-1999	1120	<0.150	E0.028	E0.035	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near pump tower	12-Jul-1999	1130	<0.150	<0.250	<0.380	<1.60	<0.370	E0.014	<0.25	<0.042
SWR near pump tower	20-Sep-1999	1140	<0.260	<0.500	E0.018	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near pump tower	20-Sep-1999	1150	<0.260	<0.500	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Vista del Lago station	10-Sep-1998	845	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near Vista del Lago station	10-Sep-1998	900	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near Vista del Lago station	3-Nov-1998	1110	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Vista del Lago station	6-Jan-1999	1000	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near Vista del Lago station	1-Mar-1999	1100	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Vista del Lago station	3-May-1999	1150	<0.150	E0.045	E0.015	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Vista del Lago station	3-May-1999	1200	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Vista del Lago station	12-Jul-1999	1210	<0.150	<0.250	E0.052	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Vista del Lago station	12-Jul-1999	1220	<0.150	<0.250	<0.380	<1.60	<0.370	E0.074	<0.25	<0.042
SWR center of minimum pool	9-Sep-1998	1630	<0.600	<1.000	<1.520	<6.40	<1.480	<0.240	<1.00	<0.168
SWR center of minimum pool	9-Sep-1998	1640	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR center of minimum pool	3-Nov-1998	1140	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR center of minimum pool	3-Nov-1998	1150	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR center of minimum pool	6-Jan-1999	1030	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR center of minimum pool	1-Mar-1999	1130	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR center of minimum pool	3-May-1999	1235	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR center of minimum pool	3-May-1999	1240	<0.150	E0.054	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR center of minimum pool	12-Jul-1999	1240	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR center of minimum pool	12-Jul-1999	1250	<0.150	E0.038	E0.037	<1.60	<0.370	<0.060	<0.25	<0.042
SWR center of minimum pool	20-Sep-1999	1220	<0.260	<0.500	E0.027	<1.60	<0.370	<0.060	<0.25	<0.042
SWR center of minimum pool	20-Sep-1999	1230	<0.260	<0.500	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near recreation area	10-Sep-1998	1010	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Bromomethane	Chloromethane	Dichloromethane	2-Butanone	4-Methyl-2-pentanone	m- and p- Xylene	Naphthalene	2-Chlorotoluene
Site name	Date	Time	34413 (µg/L)	34418 (µg/L)	34423 (µg/L)	81595 (µg/L)	78133 (µg/L)	85795 (µg/L)	34696 (µg/L)	77275 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near recreation area	3-Nov-1998	1205	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near recreation area	3-Nov-1998	1215	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near recreation area	6-Jan-1999	1100	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near recreation area	1-Mar-1999	1220	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near recreation area	3-May-1999	1310	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near recreation area	3-May-1999	1320	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near recreation area	12-Jul-1999	1320	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near recreation area	12-Jul-1999	1330	<0.150	<0.250	<0.380	<1.60	<0.370	E0.008	<0.25	<0.042
SWR minimum pool boundary east	10-Sep-1998	1240	<0.600	<1.000	<1.520	<6.40	<1.480	<0.240	<1.00	<0.168
SWR minimum pool boundary east	10-Sep-1998	1250	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR minimum pool boundary east	3-Nov-1998	1340	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR minimum pool boundary east	6-Jan-1999	1130	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR minimum pool boundary east	2-Mar-1999	840	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR minimum pool boundary east	3-May-1999	1350	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR minimum pool boundary east	3-May-1999	1400	<0.150	E0.053	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR minimum pool boundary east	12-Jul-1999	1420	<0.150	<0.250	E0.049	<1.60	<0.370	<0.060	<0.25	<0.042
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.148	<0.254	<0.382	<1.65	<0.374	<0.064	<0.25	<0.042
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR east end reservoir fill boundary	3-May-1999	1440	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.150	<0.250	<0.380	<1.60	<0.370	E0.014	<0.25	<0.042
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.260	<0.500	<0.380	<1.60	<0.370	E0.160	<0.25	<0.042
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.150	E0.068	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.150	E0.033	E0.014	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.148	<0.254	<0.382	<1.65	<0.374	<0.064	<0.25	<0.042
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.148	<0.254	<0.382	<1.65	<0.374	<0.064	<0.25	<0.042
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			Bromomethane	Chloromethane	Dichloromethane	2-Butanone	4-Methyl-2-pentanone	m- and p- Xylene	Naphthalene	2-Chlorotoluene
Site name	Date	Time	34413 (µg/L)	34418 (µg/L)	34423 (µg/L)	81595 (µg/L)	78133 (µg/L)	85795 (µg/L)	34696 (µg/L)	77275 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.150	E0.029	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.150	<0.250	<0.380	<1.60	<0.370	E0.040	<0.25	<0.042
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.260	<0.500	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.260	<0.500	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.148	<0.254	<0.382	<1.65	<0.374	<0.064	<0.25	<0.042
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.148	<0.254	<0.382	<1.65	<0.374	E0.029	<0.25	<0.042
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.150	<0.250	<0.380	<1.60	<0.370	E0.012	<0.25	<0.042
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.150	<0.250	<0.380	<1.60	<0.370	E0.018	<0.25	<0.042
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.150	E0.038	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.150	<0.250	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.150	E0.036	<0.380	<1.60	<0.370	E0.016	<0.25	<0.042
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.300	<0.500	E0.061	<3.20	<0.740	<0.120	<0.50	<0.084
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.150	E0.012	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.150	E0.071	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.260	<0.500	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.300	<0.500	<0.760	<3.20	<0.740	<0.120	<0.50	<0.084
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.150	E0.064	<0.380	<1.60	E0.522	<0.060	<0.25	<0.042
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.150	E0.167	E0.053	<1.60	<0.370	<0.060	<0.25	<0.042
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.150	E0.259	E0.055	<1.60	<0.370	<0.060	<0.25	<0.042
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.260	E0.130	E0.039	<1.60	<0.370	<0.060	<0.25	<0.042
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.260	<0.500	<0.380	<1.60	<0.370	<0.060	<0.25	<0.042

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			<i>o</i> -Xylene	4-Isopropyl-1-methylbenzene	1,2,3,4-Tetramethylbenzene	1,3-Dichloropropane	3-Chloropropene	Styrene	Tetrachloroethylene	<i>o</i> -Ethyl toluene
Site name	Date	Time	77135 (µg/L)	77356 (µg/L)	49999 (µg/L)	77173 (µg/L)	78109 (µg/L)	77128 (µg/L)	34475 (µg/L)	77220 (µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.240	<0.44	<0.92	<0.480	<0.800	<0.168	<0.400	<0.40
SWR near pump tower	9-Sep-1998	1600	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near pump tower	3-Nov-1998	1030	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near pump tower	3-Nov-1998	1040	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near pump tower	6-Jan-1999	930	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near pump tower	1-Mar-1999	1030	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near pump tower	1-Mar-1999	1045	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near pump tower	3-May-1999	1115	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near pump tower	3-May-1999	1130	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near pump tower	12-Jul-1999	1120	<0.060	<0.11	<0.23	<0.120	<0.200	0.009	<0.100	<0.10
SWR near pump tower	12-Jul-1999	1130	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near pump tower	20-Sep-1999	1140	<0.038	<0.07	<0.23	<0.120	<0.200	0.005	<0.100	<0.06
SWR near pump tower	20-Sep-1999	1150	<0.038	<0.07	<0.23	<0.120	<0.200	<0.042	<0.100	<0.06
SWR near Vista del Lago station	10-Sep-1998	845	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near Vista del Lago station	10-Sep-1998	900	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near Vista del Lago station	3-Nov-1998	1110	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near Vista del Lago station	6-Jan-1999	1000	<0.120	<0.22	<0.46	<0.240	<0.400	<0.042	<0.200	<0.20
SWR near Vista del Lago station	1-Mar-1999	1100	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near Vista del Lago station	3-May-1999	1150	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near Vista del Lago station	3-May-1999	1200	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near Vista del Lago station	12-Jul-1999	1210	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near Vista del Lago station	12-Jul-1999	1220	E0.032	<0.11	<0.23	<0.120	<0.200	0.007	<0.100	<0.10
SWR center of minimum pool	9-Sep-1998	1630	<0.240	<0.44	<0.92	<0.480	<0.800	<0.168	<0.400	<0.40
SWR center of minimum pool	9-Sep-1998	1640	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR center of minimum pool	3-Nov-1998	1140	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR center of minimum pool	3-Nov-1998	1150	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR center of minimum pool	6-Jan-1999	1030	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR center of minimum pool	1-Mar-1999	1130	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR center of minimum pool	3-May-1999	1235	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR center of minimum pool	3-May-1999	1240	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR center of minimum pool	12-Jul-1999	1240	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR center of minimum pool	12-Jul-1999	1250	<0.060	<0.11	<0.23	<0.120	<0.200	0.008	<0.100	<0.10
SWR center of minimum pool	20-Sep-1999	1220	<0.038	<0.07	<0.23	<0.120	<0.200	<0.042	<0.100	<0.06
SWR center of minimum pool	20-Sep-1999	1230	<0.038	<0.07	<0.23	<0.120	<0.200	<0.042	<0.100	<0.06
SWR near recreation area	10-Sep-1998	1010	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			<i>o</i> -Xylene	4-Isopropyl-1-methylbenzene	1,2,3,4-Tetramethylbenzene	1,3-Dichloropropane	3-Chloropropene	Styrene	Tetrachloroethylene	<i>o</i> -Ethyl toluene
Site name	Date	Time	77135 (µg/L)	77356 (µg/L)	49999 (µg/L)	77173 (µg/L)	78109 (µg/L)	77128 (µg/L)	34475 (µg/L)	77220 (µg/L)
SWR near recreation area	10-Sep-1998	1020	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near recreation area	3-Nov-1998	1205	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near recreation area	3-Nov-1998	1215	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near recreation area	6-Jan-1999	1100	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near recreation area	1-Mar-1999	1220	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near recreation area	3-May-1999	1310	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near recreation area	3-May-1999	1320	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near recreation area	12-Jul-1999	1320	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near recreation area	12-Jul-1999	1330	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR minimum pool boundary east	10-Sep-1998	1240	<0.240	<0.44	<0.92	<0.480	<0.800	<0.168	<0.400	<0.40
SWR minimum pool boundary east	10-Sep-1998	1250	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR minimum pool boundary east	3-Nov-1998	1340	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR minimum pool boundary east	6-Jan-1999	1130	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR minimum pool boundary east	2-Mar-1999	840	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR minimum pool boundary east	3-May-1999	1350	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR minimum pool boundary east	3-May-1999	1400	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR minimum pool boundary east	12-Jul-1999	1420	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.064	<0.11	<0.23	<0.116	<0.196	<0.042	<0.102	<0.10
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR east end reservoir fill boundary	3-May-1999	1440	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR east end reservoir fill boundary	20-Sep-1999	1250	E0.079	<0.07	<0.23	<0.120	<0.200	0.009	<0.100	0.02
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.064	<0.11	<0.23	<0.116	<0.196	<0.042	<0.102	<0.10
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.064	<0.11	<0.23	<0.116	<0.196	<0.042	<0.102	<0.10
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			<i>o</i> -Xylene	4-Isopropyl-1-methylbenzene	1,2,3,4-Tetramethylbenzene	1,3-Dichloropropane	3-Chloropropene	Styrene	Tetrachloroethylene	<i>o</i> -Ethyl toluene
Site name	Date	Time	77135 (µg/L)	77356 (µg/L)	49999 (µg/L)	77173 (µg/L)	78109 (µg/L)	77128 (µg/L)	34475 (µg/L)	77220 (µg/L)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir near dam site 1	13-Jul-1999	1030	E0.017	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.038	<0.07	<0.23	<0.120	<0.200	<0.042	<0.100	<0.06
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.038	<0.07	<0.23	<0.120	<0.200	<0.042	<0.100	<0.06
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.064	<0.11	<0.23	<0.116	<0.196	<0.042	<0.102	<0.10
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.064	<0.11	<0.23	<0.116	<0.196	<0.042	<0.102	<0.10
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.120	<0.22	<0.46	<0.240	<0.400	<0.084	<0.200	<0.20
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	E0.010	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	E0.011	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.120	<0.22	<0.46	<0.240	<0.400	E0.050	<0.200	<0.20
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.120	<0.22	<0.46	<0.240	<0.400	E0.096	<0.200	<0.20
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	E0.006	<0.10
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.060	<0.11	<0.23	<0.120	<0.200	E0.013	<0.100	<0.10
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.120	<0.22	<0.46	<0.240	<0.400	E0.028	<0.200	<0.20
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.038	<0.07	<0.23	<0.120	<0.200	<0.042	<0.100	<0.06
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.120	<0.22	0.46	<0.240	<0.400	<0.084	<0.200	<0.20
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.060	<0.11	<0.23	<0.120	<0.200	<0.042	<0.100	<0.10
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.038	<0.07	<0.23	<0.120	<0.200	<0.042	<0.100	<0.06
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.038	<0.07	<0.23	<0.120	<0.200	<0.042	<0.100	<0.06

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			4-Chlorotoluene	Toluene	<i>trans</i> - 1,3-Dichloropropene	Trichloroethylene	Vinyl chloride	1,4-Bromofluorobenzene (surrogate)	1,2-Dichloroethane- <i>d</i> ₄ (surrogate)	Toluene- <i>d</i> ₈ (surrogate)
Site name	Date	Time	77277 (µg/L)	34010 (µg/L)	34699 (µg/L)	34488 (µg/L)	39175 (µg/L)	99834 (%)	99832 (%)	99833 (%)
SWR near pump tower	9-Sep-1998	1550	<0.224	<0.200	<0.520	<0.360	<0.440	100	96	100
SWR near pump tower	9-Sep-1998	1600	<0.112	<0.100	<0.260	<0.180	<0.220	98	96	100
SWR near pump tower	3-Nov-1998	1030	<0.112	E0.060	<0.260	<0.180	<0.220	84	121	96
SWR near pump tower	3-Nov-1998	1040	<0.112	<0.100	<0.260	<0.180	<0.220	83	117	97
SWR near pump tower	6-Jan-1999	930	<0.112	E0.033	<0.260	<0.180	<0.220	90	92	98
SWR near pump tower	1-Mar-1999	1030	<0.056	<0.050	<0.130	<0.090	<0.110	87	106	93
SWR near pump tower	1-Mar-1999	1045	<0.056	E0.020	<0.130	<0.090	<0.110	89	109	93
SWR near pump tower	3-May-1999	1115	<0.056	E0.014	<0.130	<0.090	<0.110	96	107	100
SWR near pump tower	3-May-1999	1130	<0.056	<0.050	<0.130	<0.090	<0.110	72	98	89
SWR near pump tower	12-Jul-1999	1120	<0.056	E0.019	<0.130	<0.090	<0.110	93	104	99
SWR near pump tower	12-Jul-1999	1130	<0.056	E0.026	<0.130	<0.090	<0.110	94	104	101
SWR near pump tower	20-Sep-1999	1140	0.060	E0.073	<0.090	<0.090	<0.110	99	100	99
SWR near pump tower	20-Sep-1999	1150	0.060	E0.076	<0.090	<0.090	<0.110	102	119	107
SWR near Vista del Lago station	10-Sep-1998	845	<0.112	<0.100	<0.260	<0.180	<0.220	100	96	100
SWR near Vista del Lago station	10-Sep-1998	900	<0.112	<0.100	<0.260	<0.180	<0.220	101	95	101
SWR near Vista del Lago station	3-Nov-1998	1110	<0.056	<0.050	<0.130	<0.090	<0.110	108	127	104
SWR near Vista del Lago station	6-Jan-1999	1000	<0.112	<0.100	<0.260	<0.180	<0.220	91	95	98
SWR near Vista del Lago station	1-Mar-1999	1100	<0.056	<0.050	<0.130	<0.090	<0.110	88	105	93
SWR near Vista del Lago station	3-May-1999	1150	<0.056	<0.050	<0.130	<0.090	<0.110	94	108	101
SWR near Vista del Lago station	3-May-1999	1200	<0.056	<0.050	<0.130	<0.090	<0.110	92	107	100
SWR near Vista del Lago station	12-Jul-1999	1210	<0.056	E0.025	<0.130	<0.090	<0.110	94	106	99
SWR near Vista del Lago station	12-Jul-1999	1220	<0.056	E0.098	<0.130	<0.090	<0.110	95	105	99
SWR center of minimum pool	9-Sep-1998	1630	<0.224	<0.200	<0.520	<0.360	<0.440	98	96	99
SWR center of minimum pool	9-Sep-1998	1640	<0.112	<0.100	<0.260	<0.180	<0.220	100	95	99
SWR center of minimum pool	3-Nov-1998	1140	<0.112	<0.100	<0.260	<0.180	<0.220	82	117	95
SWR center of minimum pool	3-Nov-1998	1150	<0.112	<0.100	<0.260	<0.180	<0.220	81	117	96
SWR center of minimum pool	6-Jan-1999	1030	<0.112	<0.100	<0.260	<0.180	<0.220	90	91	96
SWR center of minimum pool	1-Mar-1999	1130	<0.056	<0.050	<0.130	<0.090	<0.110	88	106	93
SWR center of minimum pool	3-May-1999	1235	<0.056	E0.007	<0.130	<0.090	<0.110	94	112	99
SWR center of minimum pool	3-May-1999	1240	<0.056	E0.015	<0.130	<0.090	<0.110	96	105	101
SWR center of minimum pool	12-Jul-1999	1240	<0.056	<0.050	<0.130	<0.090	<0.110	92	107	99
SWR center of minimum pool	12-Jul-1999	1250	<0.056	E0.061	<0.130	<0.090	<0.110	99	108	102
SWR center of minimum pool	20-Sep-1999	1220	<0.060	<0.050	<0.090	<0.090	<0.110	103	122	106
SWR center of minimum pool	20-Sep-1999	1230	<0.060	E0.011	<0.090	<0.090	<0.110	92	98	99
SWR near recreation area	10-Sep-1998	1010	<0.112	<0.100	<0.260	<0.180	<0.220	100	95	100

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			4-Chlorotoluene	Toluene	<i>trans</i> - 1,3-Dichloropropene	Trichloroethylene	Vinyl chloride	1,4-Bromofluorobenzene (surrogate)	1,2-Dichloroethane- <i>d</i> 4 (surrogate)	Toluene- <i>d</i> 8 (surrogate)
Site name	Date	Time	77277 (µg/L)	34010 (µg/L)	34699 (µg/L)	34488 (µg/L)	39175 (µg/L)	99834 (%)	99832 (%)	99833 (%)
SWR near recreation area	10-Sep-1998	1020	<0.112	<0.100	<0.260	<0.180	<0.220	98	96	101
SWR near recreation area	3-Nov-1998	1205	<0.112	<0.100	<0.260	<0.180	<0.220	82	120	98
SWR near recreation area	3-Nov-1998	1215	<0.112	<0.100	<0.260	<0.180	<0.220	84	119	97
SWR near recreation area	6-Jan-1999	1100	<0.112	<0.100	<0.260	<0.180	<0.220	90	94	96
SWR near recreation area	1-Mar-1999	1220	<0.056	<0.050	<0.130	<0.090	<0.110	88	105	93
SWR near recreation area	3-May-1999	1310	<0.056	E0.007	<0.130	<0.090	<0.110	92	108	99
SWR near recreation area	3-May-1999	1320	<0.056	<0.050	<0.130	<0.090	<0.110	94	109	100
SWR near recreation area	12-Jul-1999	1320	<0.056	<0.050	<0.130	<0.090	<0.110	93	104	99
SWR near recreation area	12-Jul-1999	1330	<0.056	E0.010	<0.130	<0.090	<0.110	95	104	100
SWR minimum pool boundary east	10-Sep-1998	1240	<0.224	<0.200	<0.520	<0.360	<0.440	101	95	101
SWR minimum pool boundary east	10-Sep-1998	1250	<0.112	<0.100	<0.260	<0.180	<0.220	103	97	101
SWR minimum pool boundary east	3-Nov-1998	1340	<0.056	<0.050	<0.130	<0.090	<0.110	108	127	103
SWR minimum pool boundary east	6-Jan-1999	1130	<0.112	E0.038	<0.260	<0.180	<0.220	92	93	98
SWR minimum pool boundary east	2-Mar-1999	840	<0.056	<0.050	<0.130	<0.090	<0.110	88	106	94
SWR minimum pool boundary east	3-May-1999	1350	<0.056	<0.050	<0.130	<0.090	<0.110	92	112	99
SWR minimum pool boundary east	3-May-1999	1400	<0.056	E0.013	<0.130	<0.090	<0.110	94	111	99
SWR minimum pool boundary east	12-Jul-1999	1420	<0.056	E0.010	<0.130	<0.090	<0.110	95	105	100
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.056	<0.054	<0.134	<0.092	<0.112	96	96	98
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.056	<0.050	<0.130	<0.090	<0.110	82	116	97
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.112	E0.046	<0.260	<0.180	<0.220	90	93	97
SWR east end reservoir fill boundary	1-Mar-1999	1240	<0.056	E0.011	<0.130	<0.090	<0.110	86	105	91
SWR east end reservoir fill boundary	3-May-1999	1440	<0.056	<0.050	<0.130	<0.090	<0.110	95	109	99
SWR east end reservoir fill boundary	12-Jul-1999	1440	<0.056	E0.017	<0.130	<0.090	<0.110	93	104	100
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.060	0.265	<0.090	<0.090	<0.110	100	103	99
SWR near Gum Tree Cove Pond	10-Sep-1998	930	<0.112	<0.100	<0.260	<0.180	<0.220	100	96	100
SWR near Gum Tree Cove Pond	10-Sep-1998	940	<0.112	<0.100	<0.260	<0.180	<0.220	101	96	101
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.056	E0.008	<0.130	<0.090	<0.110	107	124	104
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.112	<0.100	<0.260	<0.180	<0.220	92	93	98
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.056	<0.050	<0.130	<0.090	<0.110	87	105	94
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.056	<0.050	<0.130	<0.090	<0.110	94	108	100
SWR near Gum Tree Cove Pond	12-Jul-1999	1500	<0.056	<0.050	<0.130	<0.090	<0.110	98	107	100
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.056	<0.054	<0.134	<0.092	<0.112	98	95	99
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.056	<0.054	<0.134	<0.092	<0.112	97	91	98
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.056	<0.050	<0.130	<0.090	<0.110	111	132	103
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.056	E0.013	<0.130	<0.090	<0.110	111	135	105
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.112	<0.100	<0.260	<0.180	<0.220	89	91	98
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.056	<0.050	<0.130	<0.090	<0.110	86	107	93

Table 3. Analytical results for VOCs in the water samples, SWR and Loveland Reservoirs, San Diego County, Calif.—*Continued*

PCODE			4-Chlorotoluene	Toluene	trans- 1,3-Dichloropropene	Trichloroethylene	Vinyl chloride	1,4-Bromofluorobenzene (surrogate)	1,2-Dichloroethane- <i>d</i> 4 (surrogate)	Toluene- <i>d</i> 8 (surrogate)
Site name	Date	Time	77277 (µg/L)	34010 (µg/L)	34699 (µg/L)	34488 (µg/L)	39175 (µg/L)	99834 (%)	99832 (%)	99833 (%)
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.056	<0.050	<0.130	<0.090	<0.110	92	105	100
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.056	E0.009	<0.130	<0.090	<0.110	91	108	100
Loveland Reservoir near dam site 1	13-Jul-1999	1020	<0.056	E0.013	<0.130	<0.090	<0.110	99	108	101
Loveland Reservoir near dam site 1	13-Jul-1999	1030	<0.056	E0.053	<0.130	<0.090	<0.110	98	108	100
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.060	E0.006	<0.090	<0.090	<0.110	90	94	97
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.060	E0.013	<0.090	<0.090	<0.110	90	97	98
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.056	<0.054	<0.134	<0.092	<0.112	97	96	99
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.056	<0.054	<0.134	<0.092	<0.112	97	96	97
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.112	<0.100	<0.260	<0.180	<0.220	79	120	95
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.056	E0.013	<0.130	<0.090	<0.110	110	131	103
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.056	<0.050	<0.130	<0.090	<0.110	91	92	99
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.056	E0.021	<0.130	<0.090	<0.110	88	106	93
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.056	<0.050	<0.130	<0.090	<0.110	94	105	99
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.056	E0.015	<0.130	<0.090	<0.110	93	108	98
Loveland Reservoir east end near source inlet site 2	13-Jul-1999	1100	<0.056	E0.034	<0.130	<0.090	<0.110	100	111	102
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.112	E0.072	<0.260	<0.180	<0.220	93	94	99
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.112	E0.059	<0.260	<0.180	<0.220	90	93	98
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.056	E0.027	<0.130	<0.090	<0.110	88	106	93
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.056	<0.050	<0.130	<0.090	<0.110	92	107	100
Sweetwater River at low flow barrier at SWR	12-Jul-1999	1620	<0.112	E0.112	<0.260	<0.180	<0.220	97	107	101
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.060	<0.050	<0.090	<0.090	<0.110	108	121	106
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.112	<0.100	<0.260	<0.180	<0.220	89	91	96
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.056	E0.012	<0.130	<0.090	<0.110	81	108	86
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.056	<0.050	<0.130	<0.090	<0.110	89	107	88
Perdue Treatment Plant—finished water at SWR	12-Jul-1999	1700	<0.056	<0.050	<0.130	<0.090	<0.110	92	102	96
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.060	E0.006	<0.090	<0.090	<0.110	88	100	83
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.060	E0.068	<0.090	<0.090	<0.110	101	116	103

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California

[See table 1 for site identification number. Time is denoted in 24-hour scale. An “E” indicates that the value has been estimated because of interference or is below method reporting limits. The number given below each compound is its parameter code (PCODE). Calif., California; SWR, Sweetwater Reservoir; %, percentage recovery; <, compound was not detected at a concentration above the reporting level; µg/L, microgram per liter]

PCODE	Site name	Date	Time	2,6-Diethylaniline	Acetochlor	Alachlor	alpha-HCH	Atrazine	Benfluralin	Butylate	Carbaryl
				82660 (µg/L)	49260 (µg/L)	46342 (µg/L)	34253 (µg/L)	39632 (µg/L)	82673 (µg/L)	4028 (µg/L)	82680 (µg/L)
	SWR near pump tower	9-Sep-1998	1550	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	9-Sep-1998	1600	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	3-Nov-1998	1030	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	3-Nov-1998	1040	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	6-Jan-1999	0930	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	1-Mar-1999	1030	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	1-Mar-1999	1045	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	3-May-1999	1115	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	3-May-1999	1130	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	12-Jul-1999	1120	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	12-Jul-1999	1130	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	20-Sep-1999	1140	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near pump tower	20-Sep-1999	1150	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	10-Sep-1998	0845	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	10-Sep-1998	0900	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	3-Nov-1998	1110	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	6-Jan-1999	1000	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	1-Mar-1999	1100	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	3-May-1999	1150	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	3-May-1999	1200	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	12-July-1999	1210	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near Vista del Lago station	12-July-1999	1220	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	9-Sep-1998	1630	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	9-Sep-1998	1640	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	3-Nov-1998	1140	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	3-Nov-1998	1150	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	6-Jan-1999	1030	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	1-Mar-1999	1130	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	3-May-1999	1235	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	3-May-1999	1240	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	12-July-1999	1240	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	12-July-1999	1250	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	20-Sep-1999	1220	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR center of minimum pool	20-Sep-1999	1230	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near recreation area	10-Sep-1998	1010	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	SWR near recreation area	10-Sep-1998	1020	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			2,6-Diethylaniline	Acetochlor	Alachlor	alpha-HCH	Atrazine	Benfluralin	Butylate	Carbaryl
PCODE			82660	49260	46342	34253	39632	82673	4028	82680
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near recreation area	3-Nov-1998	1205	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near recreation area	3-Nov-1998	1215	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near recreation area	6-Jan-1999	1100	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near recreation area	1-Mar-1999	1220	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near recreation area	3-May-1999	1310	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near recreation area	3-May-1999	1320	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near recreation area	12-July-1999	1320	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near recreation area	12-July-1999	1330	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR minimum pool boundary east	10-Sep-1998	1240	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR minimum pool boundary east	10-Sep-1998	1250	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR minimum pool boundary east	3-Nov-1998	1340	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR minimum pool boundary east	6-Jan-1999	1130	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR minimum pool boundary east	2-Mar-1999	0840	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR minimum pool boundary east	3-May-1999	1350	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR minimum pool boundary east	3-May-1999	1400	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR minimum pool boundary east	12-July-1999	1420	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR east end reservoir fill boundary	3-May-1999	1440	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR east end reservoir fill boundary	12-July-1999	1440	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near Gum Tree Cove Pond	10-Sep-1998	0930	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near Gum Tree Cove Pond	10-Sep-1998	0940	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
SWR near Gum Tree Cove Pond	12-July-1999	1500	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	13-July-1999	1020	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
Loveland Reservoir near dam site 1	13-July-1999	1030	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE	Site name	Date	Time	2,6-Diethylaniline	Acetochlor	Alachlor	alpha-HCH	Atrazine	Benfluralin	Butylate	Carbaryl
				82660 (µg/L)	49260 (µg/L)	46342 (µg/L)	34253 (µg/L)	39632 (µg/L)	82673 (µg/L)	4028 (µg/L)	82680 (µg/L)
	Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Loveland Reservoir east end near source inlet site 2	13-July-1999	1100	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Sweetwater River at low flow barrier at SWR	12-July-1999	1620	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Perdue Treatment Plant—finished water at SWR	12-July-1999	1700	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.003
	Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.003	<0.002	<0.002	<0.002	0.004	<0.002	<0.002	<0.003

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Carbofuran	Chlorpyrifos	Cyanazine	Dacthal	Deethyl- atrazine	Diazinon	Dieldrin	Disulfoton
PCODE			82674	38933	4041	82682	4040	39572	39381	82677
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.003	<0.004	<0.004	<0.002	<0.002	0.012	<0.001	<0.017
SWR near pump tower	9-Sep-1998	1600	<0.003	<0.004	<0.004	<0.002	<0.002	E0.003	<0.001	<0.017
SWR near pump tower	3-Nov-1998	1030	<0.003	<0.004	<0.004	<0.002	<0.002	E0.004	<0.001	<0.017
SWR near pump tower	3-Nov-1998	1040	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
SWR near pump tower	6-Jan-1999	0930	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
SWR near pump tower	1-Mar-1999	1030	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near pump tower	1-Mar-1999	1045	<0.003	<0.004	<0.004	<0.002	<0.002	0.007	<0.001	<0.017
SWR near pump tower	3-May-1999	1115	<0.003	<0.004	<0.004	<0.002	<0.002	E0.003	<0.001	<0.017
SWR near pump tower	3-May-1999	1130	<0.003	<0.004	<0.004	<0.002	<0.002	0.007	<0.001	<0.017
SWR near pump tower	12-Jul-1999	1120	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near pump tower	12-Jul-1999	1130	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near pump tower	20-Sep-1999	1140	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
SWR near pump tower	20-Sep-1999	1150	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near Vista del Lago station	10-Sep-1998	0845	<0.003	<0.004	<0.004	<0.002	<0.002	0.008	<0.001	<0.017
SWR near Vista del Lago station	10-Sep-1998	0900	<0.003	<0.004	<0.004	<0.002	<0.002	E0.004	<0.001	<0.017
SWR near Vista del Lago station	3-Nov-1998	1110	<0.003	<0.004	<0.004	<0.002	<0.002	0.004	<0.001	<0.017
SWR near Vista del Lago station	6-Jan-1999	1000	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near Vista del Lago station	1-Mar-1999	1100	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near Vista del Lago station	3-May-1999	1150	<0.003	<0.004	<0.004	<0.002	<0.002	0.013	<0.001	<0.017
SWR near Vista del Lago station	3-May-1999	1200	<0.003	<0.004	<0.004	<0.002	<0.002	E0.003	<0.001	<0.017
SWR near Vista del Lago station	12-July-1999	1210	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near Vista del Lago station	12-July-1999	1220	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR center of minimum pool	9-Sep-1998	1630	<0.003	<0.004	<0.004	<0.002	<0.002	0.011	<0.001	<0.017
SWR center of minimum pool	9-Sep-1998	1640	<0.003	<0.004	<0.004	<0.002	<0.002	0.005	<0.001	<0.017
SWR center of minimum pool	3-Nov-1998	1140	<0.003	<0.004	<0.004	<0.002	<0.002	E0.009	<0.001	<0.017
SWR center of minimum pool	3-Nov-1998	1150	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
SWR center of minimum pool	6-Jan-1999	1030	<0.003	<0.004	<0.004	<0.002	<0.002	0.009	<0.001	<0.017
SWR center of minimum pool	1-Mar-1999	1130	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR center of minimum pool	3-May-1999	1235	<0.003	<0.004	<0.004	<0.002	<0.002	0.004	<0.001	<0.017
SWR center of minimum pool	3-May-1999	1240	<0.003	<0.004	<0.004	<0.002	<0.002	E0.004	<0.001	<0.017
SWR center of minimum pool	12-July-1999	1240	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR center of minimum pool	12-July-1999	1250	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR center of minimum pool	20-Sep-1999	1220	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
SWR center of minimum pool	20-Sep-1999	1230	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near recreation area	10-Sep-1998	1010	<0.003	<0.004	<0.004	<0.002	<0.002	0.009	<0.001	<0.017
SWR near recreation area	10-Sep-1998	1020	<0.003	<0.004	<0.004	<0.002	<0.002	0.007	<0.001	<0.017
SWR near recreation area	3-Nov-1998	1205	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
SWR near recreation area	3-Nov-1998	1215	<0.003	<0.004	<0.004	<0.002	<0.002	E0.004	<0.001	<0.017

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Carbofuran	Chlorpyrifos	Cyanazine	Dacthal	Deethyl-atrazine	Diazinon	Dieldrin	Disulfoton
PCODE			82674	38933	4041	82682	4040	39572	39381	82677
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near recreation area	6-Jan-1999	1100	<0.003	<0.004	<0.004	<0.002	<0.002	0.006	<0.001	<0.017
SWR near recreation area	1-Mar-1999	1220	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near recreation area	3-May-1999	1310	<0.003	<0.004	<0.004	<0.002	<0.002	0.004	<0.001	<0.017
SWR near recreation area	3-May-1999	1320	<0.003	<0.004	<0.004	<0.002	<0.002	0.005	<0.001	<0.017
SWR near recreation area	12-July-1999	1320	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near recreation area	12-July-1999	1330	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR minimum pool boundary east	10-Sep-1998	1240	<0.003	<0.004	<0.004	<0.002	<0.002	0.011	<0.001	<0.017
SWR minimum pool boundary east	10-Sep-1998	1250	<0.003	<0.004	<0.004	<0.002	<0.002	0.006	<0.001	<0.017
SWR minimum pool boundary east	3-Nov-1998	1340	<0.003	<0.004	<0.004	<0.002	<0.002	0.007	<0.001	<0.017
SWR minimum pool boundary east	6-Jan-1999	1130	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR minimum pool boundary east	2-Mar-1999	0840	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR minimum pool boundary east	3-May-1999	1350	<0.003	<0.004	<0.004	<0.002	<0.002	0.005	<0.001	<0.017
SWR minimum pool boundary east	3-May-1999	1400	<0.003	<0.004	<0.004	<0.002	<0.002	0.005	<0.001	<0.017
SWR minimum pool boundary east	12-July-1999	1420	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.003	<0.004	<0.004	<0.002	<0.002	E0.002	<0.001	<0.017
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.003	<0.004	<0.004	<0.002	<0.002	0.005	<0.001	<0.017
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR east end reservoir fill boundary	3-May-1999	1440	<0.003	<0.004	<0.004	<0.002	<0.002	0.005	<0.001	<0.017
SWR east end reservoir fill boundary	12-July-1999	1440	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
SWR near Gum Tree Cove Pond	10-Sep-1998	0930	<0.003	<0.004	<0.004	<0.002	<0.002	0.010	<0.001	<0.017
SWR near Gum Tree Cove Pond	10-Sep-1998	0940	<0.003	<0.004	<0.004	<0.002	<0.002	E0.004	<0.001	<0.017
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.003	<0.004	<0.004	<0.002	<0.002	E0.004	<0.001	<0.017
SWR near Gum Tree Cove Pond	12-July-1999	1500	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	13-July-1999	1020	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	13-July-1999	1030	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE	Site name	Date	Time	Carbofuran	Chlorpyrifos	Cyanazine	Dacthal	Deethyl- atrazine	Diazinon	Dieldrin	Disulfoton
				82674	38933	4041	82682	4040	39572	39381	82677
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Loveland Reservoir east end near source inlet site 2	13-July-1999	1100	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
	Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.003	<0.004	<0.004	<0.002	<0.002	<0.010	<0.001	<0.017
	Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Sweetwater River at low flow barrier at SWR	12-July-1999	1620	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Perdue Treatment Plant—finished water at SWR	12-July-1999	1700	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017
	Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.003	<0.004	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			EPTC	Ethalfuralin	Ethoprophos	Fonofos	Lindane	Linuron	Malathion	Azinphos-methyl
PCODE			82668	82663	82672	4095	39341	82666	39532	82686
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	9-Sep-1998	1600	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	0.009	<0.001
SWR near pump tower	3-Nov-1998	1030	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	3-Nov-1998	1040	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	6-Jan-1999	0930	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	1-Mar-1999	1030	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	1-Mar-1999	1045	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	3-May-1999	1115	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	3-May-1999	1130	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	12-Jul-1999	1120	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	12-Jul-1999	1130	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	20-Sep-1999	1140	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near pump tower	20-Sep-1999	1150	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	10-Sep-1998	0845	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	10-Sep-1998	0900	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	3-Nov-1998	1110	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	6-Jan-1999	1000	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	1-Mar-1999	1100	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	3-May-1999	1150	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	3-May-1999	1200	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	12-July-1999	1210	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Vista del Lago station	12-July-1999	1220	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	9-Sep-1998	1630	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	9-Sep-1998	1640	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	3-Nov-1998	1140	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	3-Nov-1998	1150	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	6-Jan-1999	1030	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	1-Mar-1999	1130	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	3-May-1999	1235	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	3-May-1999	1240	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	12-July-1999	1240	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	12-July-1999	1250	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	20-Sep-1999	1220	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	20-Sep-1999	1230	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	10-Sep-1998	1010	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	10-Sep-1998	1020	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	3-Nov-1998	1205	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	3-Nov-1998	1215	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			EPTC	Ethalfuralin	Ethoprophos	Fonofos	Lindane	Linuron	Malathion	Azinphos-methyl
PCODE			82668	82663	82672	4095	39341	82666	39532	82686
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near recreation area	6-Jan-1999	1100	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	1-Mar-1999	1220	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	3-May-1999	1310	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	3-May-1999	1320	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	12-July-1999	1320	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near recreation area	12-July-1999	1330	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR minimum pool boundary east	10-Sep-1998	1240	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR minimum pool boundary east	10-Sep-1998	1250	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR minimum pool boundary east	3-Nov-1998	1340	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR minimum pool boundary east	6-Jan-1999	1130	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR minimum pool boundary east	2-Mar-1999	0840	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR minimum pool boundary east	3-May-1999	1350	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR minimum pool boundary east	3-May-1999	1400	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR minimum pool boundary east	12-July-1999	1420	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR east end reservoir fill boundary	3-May-1999	1440	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR east end reservoir fill boundary	12-July-1999	1440	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Gum Tree Cove Pond	10-Sep-1998	0930	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Gum Tree Cove Pond	10-Sep-1998	0940	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR near Gum Tree Cove Pond	12-July-1999	1500	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	13-July-1999	1020	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	13-July-1999	1030	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			EPTC	Ethalfuralin	Ethoprophos	Fonofos	Lindane	Linuron	Malathion	Azinphos-methyl
PCODE			82668	82663	82672	4095	39341	82666	39532	82686
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir east end near source inlet site 2	13-July-1999	1100	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Sweetwater River at low flow barrier at SWR	12-July-1999	1620	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.002	<0.004	<0.003	0.020	<0.004	<0.002	<0.005	<0.001
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Perdue Treatment Plant—finished water at SWR	12-July-1999	1700	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.002	<0.004	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Parathion-methyl	Metolachlor	Metribuzin	Molinate	Napropamide	<i>p,p'</i> -DDE	Parathion	Pebulate
PCODE			82667	39415	82630	82671	82684	34653	39542	82669
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near pump tower	9-Sep-1998	1550	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	9-Sep-1998	1600	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	3-Nov-1998	1030	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	3-Nov-1998	1040	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	6-Jan-1999	0930	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	1-Mar-1999	1030	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	1-Mar-1999	1045	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	3-May-1999	1115	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	3-May-1999	1130	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	12-Jul-1999	1120	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	12-Jul-1999	1130	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	20-Sep-1999	1140	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near pump tower	20-Sep-1999	1150	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	10-Sep-1998	0845	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	10-Sep-1998	0900	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	3-Nov-1998	1110	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	6-Jan-1999	1000	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	1-Mar-1999	1100	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	3-May-1999	1150	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	3-May-1999	1200	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	12-July-1999	1210	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Vista del Lago station	12-July-1999	1220	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	9-Sep-1998	1630	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	9-Sep-1998	1640	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	3-Nov-1998	1140	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	3-Nov-1998	1150	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	6-Jan-1999	1030	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	1-Mar-1999	1130	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	3-May-1999	1235	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	3-May-1999	1240	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	12-July-1999	1240	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	12-July-1999	1250	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	20-Sep-1999	1220	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR center of minimum pool	20-Sep-1999	1230	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	10-Sep-1998	1010	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	10-Sep-1998	1020	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	3-Nov-1998	1205	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	3-Nov-1998	1215	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Parathion-methyl	Metolachlor	Metribuzin	Molinate	Napropamide	p,p'-DDE	Parathion	Pebulate
PCODE			82667	39415	82630	82671	82684	34653	39542	82669
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near recreation area	6-Jan-1999	1100	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	1-Mar-1999	1220	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	3-May-1999	1310	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	3-May-1999	1320	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	12-July-1999	1320	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near recreation area	12-July-1999	1330	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR minimum pool boundary east	10-Sep-1998	1240	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR minimum pool boundary east	10-Sep-1998	1250	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR minimum pool boundary east	3-Nov-1998	1340	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR minimum pool boundary east	6-Jan-1999	1130	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR minimum pool boundary east	2-Mar-1999	0840	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR minimum pool boundary east	3-May-1999	1350	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR minimum pool boundary east	3-May-1999	1400	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR minimum pool boundary east	12-July-1999	1420	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR east end reservoir fill boundary	3-May-1999	1440	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR east end reservoir fill boundary	12-July-1999	1440	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Gum Tree Cove Pond	10-Sep-1998	0930	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Gum Tree Cove Pond	10-Sep-1998	0940	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
SWR near Gum Tree Cove Pond	12-July-1999	1500	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	13-July-1999	1020	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	13-July-1999	1030	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.006	<0.002	<0.010	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Parathion- methyl	Metolachor	Metribuzin	Molinate	Napropamide	<i>p,p'</i> -DDE	Parathion	Pebulate
PCODE			82667	39415	82630	82671	82684	34653	39542	82669
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Loveland Reservoir east end near source inlet site 2	13-July-1999	1100	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Sweetwater River at low flow barrier at SWR	12-July-1999	1620	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Perdue Treatment Plant—finished water at SWR	12-July-1999	1700	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.006	0.004	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.006	0.005	<0.004	<0.004	<0.003	<0.006	<0.004	<0.004

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE	Site name	Date	Time	Pendi- methalin	<i>cis</i> - Permethrin	Phorate	Prometon	Propyzamide	Propachlor	Propanil	Propargite
				82683	82687	82664	4037	82676	4024	82679	82685
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near pump tower		9-Sep-1998	1550	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		9-Sep-1998	1600	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		3-Nov-1998	1030	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		3-Nov-1998	1040	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		6-Jan-1999	0930	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		1-Mar-1999	1030	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		1-Mar-1999	1045	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		3-May-1999	1115	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		3-May-1999	1130	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		12-Jul-1999	1120	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		12-Jul-1999	1130	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		20-Sep-1999	1140	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near pump tower		20-Sep-1999	1150	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		10-Sep-1998	0845	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		10-Sep-1998	0900	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		3-Nov-1998	1110	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		6-Jan-1999	1000	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		1-Mar-1999	1100	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		3-May-1999	1150	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		3-May-1999	1200	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		12-July-1999	1210	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near Vista del Lago station		12-July-1999	1220	<0.004	<0.005	<0.002	E0.005	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		9-Sep-1998	1630	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		9-Sep-1998	1640	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		3-Nov-1998	1140	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		3-Nov-1998	1150	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		6-Jan-1999	1030	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		1-Mar-1999	1130	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		3-May-1999	1235	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		3-May-1999	1240	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		12-July-1999	1240	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		12-July-1999	1250	<0.004	<0.005	<0.002	0.005	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		20-Sep-1999	1220	<0.004	<0.005	<0.002	0.008	<0.003	<0.007	<0.004	<0.013
SWR center of minimum pool		20-Sep-1999	1230	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR near recreation area		10-Sep-1998	1010	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near recreation area		10-Sep-1998	1020	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR near recreation area		3-Nov-1998	1205	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near recreation area		3-Nov-1998	1215	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Pendi- methalin	<i>cis</i> - Permethrin	Phorate	Prometon	Propyzamide	Propachlor	Propanil	Propargite
PCODE			82683	82687	82664	4037	82676	4024	82679	82685
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near recreation area	6-Jan-1999	1100	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near recreation area	1-Mar-1999	1220	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near recreation area	3-May-1999	1310	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR near recreation area	3-May-1999	1320	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR near recreation area	12-July-1999	1320	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near recreation area	12-July-1999	1330	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR minimum pool boundary east	10-Sep-1998	1240	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR minimum pool boundary east	10-Sep-1998	1250	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR minimum pool boundary east	3-Nov-1998	1340	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR minimum pool boundary east	6-Jan-1999	1130	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR minimum pool boundary east	2-Mar-1999	0840	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR minimum pool boundary east	3-May-1999	1350	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR minimum pool boundary east	3-May-1999	1400	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR minimum pool boundary east	12-July-1999	1420	<0.004	<0.005	<0.002	E0.005	<0.003	<0.007	<0.004	<0.013
SWR east end reservoir fill boundary	10-Sep-1998	1310	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR east end reservoir fill boundary	3-Nov-1998	1400	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR east end reservoir fill boundary	6-Jan-1999	1150	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR east end reservoir fill boundary	3-May-1999	1440	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR east end reservoir fill boundary	12-July-1999	1440	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR east end reservoir fill boundary	20-Sep-1999	1250	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR near Gum Tree Cove Pond	10-Sep-1998	0930	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near Gum Tree Cove Pond	10-Sep-1998	0940	<0.004	<0.005	<0.002	E0.006	<0.003	<0.007	<0.004	<0.013
SWR near Gum Tree Cove Pond	3-Nov-1998	1430	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
SWR near Gum Tree Cove Pond	6-Jan-1999	1220	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
SWR near Gum Tree Cove Pond	1-Mar-1999	1310	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
SWR near Gum Tree Cove Pond	3-May-1999	1510	<0.004	<0.005	<0.002	0.007	<0.003	<0.007	<0.004	<0.013
SWR near Gum Tree Cove Pond	12-July-1999	1500	<0.004	<0.005	<0.002	E0.005	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	10-Sep-1998	1610	<0.004	<0.005	<0.002	E0.003	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	10-Sep-1998	1620	<0.004	<0.005	<0.002	E0.002	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	4-Nov-1998	1030	<0.004	<0.005	<0.002	E0.004	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	4-Nov-1998	1040	<0.004	<0.005	<0.002	E0.004	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	7-Jan-1999	1010	<0.004	<0.005	<0.002	E0.003	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	2-Mar-1999	1150	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	4-May-1999	1040	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	4-May-1999	1050	<0.004	<0.005	<0.002	E0.004	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	13-July-1999	1020	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	13-July-1999	1030	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	21-Sep-1999	1000	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir near dam site 1	21-Sep-1999	1020	<0.004	<0.005	<0.002	E0.005	<0.003	<0.007	<0.004	<0.013

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Pendi- methalin	<i>cis</i> - Permethrin	Phorate	Prometon	Propyzamide	Propachlor	Propanil	Propargite
PCODE			82683	82687	82664	4037	82676	4024	82679	82685
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	<0.004	<0.005	<0.002	E0.003	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	<0.004	<0.005	<0.002	E0.002	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	<0.004	<0.005	<0.002	E0.004	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	<0.004	<0.005	<0.002	E0.003	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Loveland Reservoir east end near source inlet site 2	13-July-1999	1100	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	<0.004	<0.005	<0.002	E0.003	<0.003	<0.007	<0.004	<0.013
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.004	<0.005	<0.002	E0.012	<0.003	<0.007	<0.004	<0.013
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	<0.004	<0.005	<0.002	E0.012	<0.003	<0.007	<0.004	<0.013
Sweetwater River at low flow barrier at SWR	12-July-1999	1620	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	<0.004	<0.005	<0.002	E0.008	<0.003	<0.007	<0.004	<0.013
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.004	<0.005	<0.002	<0.020	<0.003	<0.007	<0.004	<0.013
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	<0.004	<0.005	<0.002	E0.007	<0.003	<0.007	<0.004	<0.013
Perdue Treatment Plant—finished water at SWR	12-July-1999	1700	<0.004	<0.005	<0.002	E0.004	<0.003	<0.007	<0.004	<0.013
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	<0.004	<0.005	<0.002	<0.018	<0.003	<0.007	<0.004	<0.013

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Simazine	Tebuthiuron	Terbucil	Terbufos	Thiobencarb	Triallate	Trifluralin
PCODE			4035	82670	82665	82675	82681	82678	82661
Site name	Date	Time	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near pump tower	9-Sep-1998	1550	0.024	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	9-Sep-1998	1600	0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	3-Nov-1998	1030	0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	3-Nov-1998	1040	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	6-Jan-1999	0930	0.018	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	1-Mar-1999	1030	<0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	1-Mar-1999	1045	<0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	3-May-1999	1115	0.014	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	3-May-1999	1130	0.014	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	12-Jul-1999	1120	0.015	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	12-Jul-1999	1130	0.011	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	20-Sep-1999	1140	0.016	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near pump tower	20-Sep-1999	1150	0.014	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	10-Sep-1998	0845	0.022	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	10-Sep-1998	0900	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	3-Nov-1998	1110	0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	6-Jan-1999	1000	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	1-Mar-1999	1100	0.016	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	3-May-1999	1150	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	3-May-1999	1200	0.016	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	12-July-1999	1210	0.009	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Vista del Lago station	12-July-1999	1220	0.011	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	9-Sep-1998	1630	0.024	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	9-Sep-1998	1640	0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	3-Nov-1998	1140	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	3-Nov-1998	1150	0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	6-Jan-1999	1030	0.016	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	1-Mar-1999	1130	<0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	3-May-1999	1235	0.012	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	3-May-1999	1240	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	12-July-1999	1240	<0.010	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	12-July-1999	1250	0.011	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	20-Sep-1999	1220	0.016	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR center of minimum pool	20-Sep-1999	1230	0.014	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area	10-Sep-1998	1010	0.021	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area	10-Sep-1998	1020	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area	3-Nov-1998	1205	0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area	3-Nov-1998	1215	0.018	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area	6-Jan-1999	1100	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE	Site name	Date	Time	Simazine	Tebuthiuron	Terbucil	Terbufos	Thiobencarb	Triallate	Trifluralin
				4035 (µg/L)	82670 (µg/L)	82665 (µg/L)	82675 (µg/L)	82681 (µg/L)	82678 (µg/L)	82661 (µg/L)
SWR near recreation area		1-Mar-1999	1220	<0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area		3-May-1999	1310	0.012	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area		3-May-1999	1320	0.014	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area		12-July-1999	1320	0.013	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near recreation area		12-July-1999	1330	0.010	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR minimum pool boundary east		10-Sep-1998	1240	0.022	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR minimum pool boundary east		10-Sep-1998	1250	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR minimum pool boundary east		3-Nov-1998	1340	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR minimum pool boundary east		6-Jan-1999	1130	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR minimum pool boundary east		2-Mar-1999	0840	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR minimum pool boundary east		3-May-1999	1350	0.016	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR minimum pool boundary east		3-May-1999	1400	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR minimum pool boundary east		12-July-1999	1420	0.013	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR east end reservoir fill boundary		10-Sep-1998	1310	0.016	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR east end reservoir fill boundary		3-Nov-1998	1400	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR east end reservoir fill boundary		6-Jan-1999	1150	0.018	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR east end reservoir fill boundary		3-May-1999	1440	0.015	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR east end reservoir fill boundary		12-July-1999	1440	0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR east end reservoir fill boundary		20-Sep-1999	1250	0.014	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Gum Tree Cove Pond		10-Sep-1998	0930	0.022	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Gum Tree Cove Pond		10-Sep-1998	0940	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Gum Tree Cove Pond		3-Nov-1998	1430	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Gum Tree Cove Pond		6-Jan-1999	1220	0.017	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Gum Tree Cove Pond		1-Mar-1999	1310	<0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Gum Tree Cove Pond		3-May-1999	1510	0.012	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
SWR near Gum Tree Cove Pond		12-July-1999	1500	0.015	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		10-Sep-1998	1610	0.023	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		10-Sep-1998	1620	0.006	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		4-Nov-1998	1030	0.023	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		4-Nov-1998	1040	0.010	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		7-Jan-1999	1010	0.013	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		2-Mar-1999	1150	<0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		4-May-1999	1040	0.012	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		4-May-1999	1050	0.014	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		13-July-1999	1020	0.011	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		13-July-1999	1030	0.010	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		21-Sep-1999	1000	0.011	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir near dam site 1		21-Sep-1999	1020	0.012	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir east end near source inlet site 2		10-Sep-1998	1650	0.021	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
Loveland Reservoir east end near source inlet site 2		10-Sep-1998	1700	0.006	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE	Site name	Date	Time	Simazine	Tebuthiuron	Terbucil	Terbufos	Thiobencarb	Triallate	Trifluralin
				4035	82670	82665	82675	82681	82678	82661
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	0.019	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	0.010	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	0.013	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	<0.020	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	0.010	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	0.012	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Loveland Reservoir east end near source inlet site 2	13-July-1999	1100	0.012	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	0.007	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	0.011	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	<0.010	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Sweetwater River at low flow barrier at SWR	3-May-1999	1645	0.007	E0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Sweetwater River at low flow barrier at SWR	12-July-1999	1620	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	0.016	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	0.015	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Perdue Treatment Plant—finished water at SWR	12-July-1999	1700	0.012	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	0.009	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
	Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	0.008	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Diazinon- <i>d</i> ₁₀ (surrogate)	alpha-HCH- <i>d</i> ₆ (surrogate)	Terbutyl- azine (surrogate)
PCODE			91063	91065	91064
Site name	Date	Time	(%)	(%)	(%)
SWR near pump tower	9-Sep-1998	1550	97	107	104
SWR near pump tower	9-Sep-1998	1600	92	93	99
SWR near pump tower	3-Nov-1998	1030	96	89	105
SWR near pump tower	3-Nov-1998	1040	99	88	100
SWR near pump tower	6-Jan-1999	0930	112	100	114
SWR near pump tower	1-Mar-1999	1030	104	106	129
SWR near pump tower	1-Mar-1999	1045	112	112	117
SWR near pump tower	3-May-1999	1115	99	86	91
SWR near pump tower	3-May-1999	1130	100	87	92
SWR near pump tower	12-Jul-1999	1120	88	85	NA
SWR near pump tower	12-Jul-1999	1130	87	78	NA
SWR near pump tower	20-Sep-1999	1140	102	87	NA
SWR near pump tower	20-Sep-1999	1150	107	84	NA
SWR near Vista del Lago station	10-Sep-1998	0845	98	98	100
SWR near Vista del Lago station	10-Sep-1998	0900	91	94	103
SWR near Vista del Lago station	3-Nov-1998	1110	98	87	101
SWR near Vista del Lago station	6-Jan-1999	1000	107	95	107
SWR near Vista del Lago station	1-Mar-1999	1100	96	97	100
SWR near Vista del Lago station	3-May-1999	1150	129	128	121
SWR near Vista del Lago station	3-May-1999	1200	98	90	99
SWR near Vista del Lago station	12-July-1999	1210	100	76	NA
SWR near Vista del Lago station	12-July-1999	1220	101	88	NA
SWR center of minimum pool	9-Sep-1998	1630	98	103	104
SWR center of minimum pool	9-Sep-1998	1640	96	106	103
SWR center of minimum pool	3-Nov-1998	1140	90	87	95
SWR center of minimum pool	3-Nov-1998	1150	97	87	97
SWR center of minimum pool	6-Jan-1999	1030	102	90	104
SWR center of minimum pool	1-Mar-1999	1130	95	99	110
SWR center of minimum pool	3-May-1999	1235	96	84	97
SWR center of minimum pool	3-May-1999	1240	121	114	118
SWR center of minimum pool	12-July-1999	1240	99	89	NA
SWR center of minimum pool	12-July-1999	1250	98	90	NA
SWR center of minimum pool	20-Sep-1999	1220	107	87	NA
SWR center of minimum pool	20-Sep-1999	1230	99	75	NA
SWR near recreation area	10-Sep-1998	1010	90	89	102
SWR near recreation area	10-Sep-1998	1020	94	91	100
SWR near recreation area	3-Nov-1998	1205	98	87	99

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE	Site name	Date	Time	Diazinon- d_{10} (surrogate)	alpha-HCH- d_6 (surrogate)	Terbutyl- azine (surrogate)
				91063 (%)	91065 (%)	91064 (%)
	SWR near recreation area	3-Nov-1998	1215	98	85	100
	SWR near recreation area	6-Jan-1999	1100	103	94	107
	SWR near recreation area	1-Mar-1999	1220	101	103	120
	SWR near recreation area	3-May-1999	1310	103	89	90
	SWR near recreation area	3-May-1999	1320	99	91	96
	SWR near recreation area	12-July-1999	1320	87	77	NA
	SWR near recreation area	12-July-1999	1330	89	77	NA
	SWR minimum pool boundary east	10-Sep-1998	1240	99	97	99
	SWR minimum pool boundary east	10-Sep-1998	1250	99	92	102
	SWR minimum pool boundary east	3-Nov-1998	1340	98	87	98
	SWR minimum pool boundary east	6-Jan-1999	1130	105	93	106
	SWR minimum pool boundary east	2-Mar-1999	840	102	97	116
	SWR minimum pool boundary east	3-May-1999	1350	96	86	94
	SWR minimum pool boundary east	3-May-1999	1400	94	91	99
	SWR minimum pool boundary east	12-July-1999	1420	106	74	NA
	SWR east end reservoir fill boundary	10-Sep-1998	1310	84	80	86
	SWR east end reservoir fill boundary	3-Nov-1998	1400	102	91	101
	SWR east end reservoir fill boundary	6-Jan-1999	1150	106	97	112
	SWR east end reservoir fill boundary	3-May-1999	1440	86	82	87
	SWR east end reservoir fill boundary	12-July-1999	1440	79	75	NA
	SWR east end reservoir fill boundary	20-Sep-1999	1250	107	82	NA
	SWR near Gum Tree Cove Pond	10-Sep-1998	0930	97	94	100
	SWR near Gum Tree Cove Pond	10-Sep-1998	940	99	96	105
	SWR near Gum Tree Cove Pond	3-Nov-1998	1430	100	88	101
	SWR near Gum Tree Cove Pond	6-Jan-1999	1220	100	93	107
	SWR near Gum Tree Cove Pond	1-Mar-1999	1310	118	106	134
	SWR near Gum Tree Cove Pond	3-May-1999	1510	92	78	83
	SWR near Gum Tree Cove Pond	12-July-1999	1500	110	82	NA
	Loveland Reservoir near dam site 1	10-Sep-1998	1610	92	89	95
	Loveland Reservoir near dam site 1	10-Sep-1998	1620	97	92	101
	Loveland Reservoir near dam site 1	4-Nov-1998	1030	97	89	97
	Loveland Reservoir near dam site 1	4-Nov-1998	1040	97	89	96
	Loveland Reservoir near dam site 1	7-Jan-1999	1010	102	92	106
	Loveland Reservoir near dam site 1	2-Mar-1999	1150	109	103	121
	Loveland Reservoir near dam site 1	4-May-1999	1040	99	88	99
	Loveland Reservoir near dam site 1	4-May-1999	1050	102	89	99
	Loveland Reservoir near dam site 1	13-July-1999	1020	101	87	NA
	Loveland Reservoir near dam site 1	13-July-1999	1030	96	75	NA

Table 4. Analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

			Diazinon- <i>d</i> ₁₀ (surrogate)	alpha-HCH- <i>d</i> ₆ (surrogate)	Terbutyl- azine (surrogate)
PCODE			91063	91065	91064
Site name	Date	Time	(%)	(%)	(%)
Loveland Reservoir near dam site 1	21-Sep-1999	1000	96	90	NA
Loveland Reservoir near dam site 1	21-Sep-1999	1020	104	87	NA
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1650	98	94	102
Loveland Reservoir east end near source inlet site 2	10-Sep-1998	1700	96	91	100
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1155	96	92	94
Loveland Reservoir east end near source inlet site 2	4-Nov-1998	1205	106	98	108
Loveland Reservoir east end near source inlet site 2	7-Jan-1999	1035	102	92	107
Loveland Reservoir east end near source inlet site 2	2-Mar-1999	1220	100	107	116
Loveland Reservoir east end near source inlet site 2	4-May-1999	1120	96	84	95
Loveland Reservoir east end near source inlet site 2	4-May-1999	1130	123	120	120
Loveland Reservoir east end near source inlet site 2	13-July-1999	1100	96	72	NA
Sweetwater River at low flow barrier at SWR	6-Jan-1999	1515	105	97	110
Sweetwater River at low flow barrier at SWR	7-Jan-1999	1420	109	100	110
Sweetwater River at low flow barrier at SWR	2-Mar-1999	1540	104	101	117
Sweetwater River at low flow barrier at SWR	3-May-1999	1645	87	84	90
Sweetwater River at low flow barrier at SWR	12-July-1999	1620	107	88	NA
Sweetwater River at low flow barrier at SWR	20-Sep-1999	1630	107	80	NA
Perdue Treatment Plant—finished water at SWR	7-Jan-1999	1350	94	97	106
Perdue Treatment Plant—finished water at SWR	2-Mar-1999	1630	98	98	123
Perdue Treatment Plant—finished water at SWR	3-May-1999	1607	94	87	104
Perdue Treatment Plant—finished water at SWR	12-July-1999	1700	84	78	NA
Perdue Treatment Plant—finished water at SWR	20-Sep-1999	1430	99	87	NA
Perdue Treatment Plant—imported raw water at SWR	20-Sep-1999	1500	104	80	NA

Table 5A. Analytical results for chlorofluorocarbons and other compounds with low breakthrough volumes for the Sweetwater Reservoir air sampling site, San Diego County, California

[The site identification number is 324141117001601. An "E" indicates that the value has been estimated because of interference or is below method reporting limits. The number given below each compound is its parameter code (PCODE). ND, not detected; NA, not analyzed. ppbv, part per billion by volume]

	Chloroethane	Bromomethane	Chloromethane	Trichlorofluoro- methane (CFC11)	Dichlorodifluoro- methane (CFC12)	Chloroethene (Vinyl chloride)	Bromoethene (Vinyl bromide)	1,1,2-Trichloro- 1,2,2-Trifluoroethane (CFC113)
PCODE	34311	34413	34418	34488	34668	39175	50002	77652
Date	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
24-Mar-1999	ND	E0.260	E0.183	0.464	0.203	ND	ND	E0.018
5-Apr-1999	ND	ND	ND	0.294	0.744	ND	ND	E0.091
17-Apr-1999	ND	ND	ND	0.403	0.629	ND	ND	E0.078
29-Apr-1999				Sample lost				
11-May-1999	ND	ND	E0.121	E0.335	0.516	ND	ND	E0.044
23-May-1999	ND	ND	ND	E0.327	0.720	ND	ND	E0.073
4-Jun-1999	ND	ND	ND	0.410	0.535	ND	ND	E0.059
16-Jun-1999	ND	ND	E0.059	E0.212	0.445	ND	ND	E0.060
28-Jun-1999	ND	ND	E0.069	E0.203	0.606	ND	ND	E0.060
10-Jul-1999	ND	ND	ND	E0.260	0.541	ND	ND	E0.053
22-Jul-1999	ND	ND	ND	E0.236	0.677	ND	ND	E0.055
3-Aug-1999	ND	ND	ND	0.624	0.634	ND	ND	E0.052
15-Aug-1999	ND	ND	ND	E0.228	0.566	ND	ND	E0.053
27-Aug-1999				Sample lost				
6-Sep-1999	ND	ND	E0.040	E0.324	0.614	ND	ND	E0.054
20-Sep-1999	ND	ND	ND	E0.320	0.544	ND	ND	E0.052

Table 5B. Analytical results for the remaining volatile organic compound analytes for the Sweetwater Reservoir air sampling site, San Diego County, California

[The site identification number is 324141117001601. VOC, volatile organic compound. An "E" indicates that the value has been estimated because of interference or is below method reporting limits. The number given below a compound is its parameter code (PCODE). Calif., California; SWR, Sweetwater Reservoir; ND, not detected; NA, not analyzed. pbbv, part per billion by volume]

Table 5B. Analytical results for the remaining VOC analytes for the SWR air sampling site, San Diego County, Calif.—*Continued*

	Dibromomethane	Bromodichloro-methane	Carbontetrachloride	1,2-Dichloroethane	Bromoform	Dibromochloro-methane	Chloroform	Toluene	Benzene	2-Propenenitrile (Acrylonitrile)	Chlorobenzene	Ethylbenzene	Hexachloroethane	Methylenedichloride	Tetrachloroethene (PCE)
PCODE	30217	32101	32102	32103	32104	32105	32106	34010	34030	34215	34301	34371	34396	34423	34475
Date	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
24-Mar-1999	ND	ND	E0.103	E0.010	ND	ND	E0.029	0.524	0.286	ND	E0.003	E0.070	ND	E0.078	0.095
5-Apr-1999	ND	ND	E0.116	E0.007	ND	ND	E0.015	0.569	0.401	ND	E0.002	0.110	ND	ND	E0.037
17-Apr-1999	ND	ND	E0.109	E0.009	ND	ND	E0.044	1.133	1.252	ND	E0.004	0.207	ND	0.162	E0.057
29-Apr-1999	Sample lost														
11-May-1999	ND	ND	0.156	E0.003	ND	ND	E0.010	0.762	0.487	ND	ND	0.105	ND	ND	E0.033
23-May-1999	ND	ND	E0.129	E0.008	ND	ND	E0.023	0.697	0.280	ND	ND	0.087	ND	ND	E0.019
4-Jun-1999	ND	ND	E0.062	E0.002	ND	ND	E0.007	0.106	ND	ND	ND	E0.019	ND	ND	E0.004
16-Jun-1999	ND	ND	E0.139	ND	ND	ND	ND	0.495	0.537	ND	ND	0.082	ND	ND	E0.016
28-Jun-1999	ND	ND	E0.081	ND	ND	ND	E0.008	0.592	0.294	ND	ND	0.101	ND	ND	E0.013
10-Jul-1999	ND	ND	E0.079	ND	ND	ND	E0.019	0.657	0.232	ND	ND	0.096	ND	ND	E0.018
22-Jul-1999	ND	E0.016	E0.078	ND	ND	ND	E0.044	1.030	0.334	ND	ND	0.173	ND	E0.029	E0.030
3-Aug-1999	ND	E0.005	E0.069	E0.001	ND	E0.004	E0.005	1.329	0.421	ND	ND	0.203	ND	ND	E0.041
15-Aug-1999	ND	E0.001	E0.100	E0.001	ND	ND	E0.003	0.432	0.157	ND	ND	E0.061	ND	ND	E0.008
27-Aug-1999	ND	ND	E0.075	ND	ND	ND	E0.003	0.859	ND	ND	ND	0.147	ND	ND	E0.024
8-Sep-1999	ND	E0.001	E0.078	ND	ND	ND	E0.017	0.834	0.263	ND	ND	0.117	ND	ND	E0.026
20-Sep-1999	ND	ND	E0.083	ND	ND	ND	E0.020	1.035	0.333	ND	ND	0.187	ND	ND	E0.034

Table 5B. Analytical results for the remaining VOC analytes for the SWR air sampling site, San Diego County, Calif.—*Continued*

	1,1-Dichloroethane	1,1-Dichloroethene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,2-Dichlorobenzene	1,2-Dichloropropane	<i>trans</i> -1,2-Dichloro-ethene	1,2,4-Trichloro benzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Naphthalene	<i>trans</i> -1,3-Dichloro-propene	<i>cis</i> -1,3-Dichloro-propene	Trichloroethene (TCE)
PCODE	34496	34501	34506	34511	34516	34536	34541	34546	34551	34566	34571	34696	34699	34704	39180
Date	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
24-Mar-1999	ND	ND	0.074	ND	ND	ND	ND	ND	ND	ND	E0.017	E0.006	ND	ND	E0.009
5-Apr-1999	ND	ND	0.075	ND	ND	ND	ND	ND	ND	ND	E0.018	E0.012	ND	ND	E0.001
17-Apr-1999	ND	ND	0.091	ND	ND	ND	ND	ND	ND	ND	E0.054	E0.027	ND	ND	E0.018
29-Apr-1999	Sample lost														
11-May-1999	ND	ND	0.085	ND	ND	ND	ND	ND	ND	ND	E0.020	E0.027	ND	ND	E0.003
23-May-1999	ND	ND	0.090	ND	ND	ND	ND	ND	ND	ND	E0.015	E0.013	ND	ND	E0.002
4-Jun-1999	ND	ND	E0.039	ND	ND	ND	ND	ND	ND	ND	E0.002	E0.002	ND	ND	ND
16-Jun-1999	ND	E0.046	E0.050	ND	ND	ND	ND	ND	ND	ND	E0.010	E0.054	ND	ND	E0.009
28-Jun-1999	ND	ND	E0.056	ND	ND	ND	ND	ND	ND	ND	E0.017	E0.025	ND	ND	ND
10-Jul-1999	ND	ND	E0.055	ND	ND	ND	ND	ND	ND	ND	E0.016	E0.019	ND	ND	E0.035
22-Jul-1999	ND	ND	0.072	ND	ND	ND	ND	ND	ND	ND	E0.036	E0.040	ND	ND	E0.004
3-Aug-1999	ND	ND	0.067	ND	ND	ND	ND	ND	ND	ND	E0.047	E0.034	ND	ND	E0.026
15-Aug-1999	ND	ND	E0.042	ND	ND	ND	ND	ND	ND	ND	E0.013	E0.009	ND	ND	E0.0004
27-Aug-1999	ND	ND	E0.047	ND	ND	ND	ND	ND	ND	ND	E0.032	E0.038	ND	ND	E0.009
8-Sep-1999	ND	ND	E0.059	ND	ND	ND	ND	ND	ND	ND	E0.020	E0.017	ND	ND	E0.001
20-Sep-1999	ND	ND	E0.062	ND	ND	ND	ND	ND	ND	ND	E0.033	E0.034	ND	ND	E0.004

Table 5B. Analytical results for the remaining VOC analytes for the SWR air sampling site, San Diego County, Calif.—*Continued*

	Hexachloro-butadiene	Methylacrylate	1,2,3,4-Tetramethyl-benzene	Ethyl tert-butyl ether (ETBE)	tert -Amyl methyl ether (TAME)	trans -1,4-Dichloro-2-butene	Ethyl methacrylate	Carbonyl sulfide	cis -1,2-Dichloro-ethene	2-Hexanone (MBK)	Ethylbenzene (Styrene)	O -Xylene	1,1-Dichloropropene	2,2-Dichloropropane	1,3-Dichloropropane
PCODE	39702	49991	49999	50004	50005	73547	73570	77041	77093	77103	77128	77135	77168	77170	77173
Date	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
24-Mar-1999	ND	ND	E0.001	ND	E0.002	ND	ND	E0.005	ND	E0.010	E0.014	0.088	ND	ND	ND
5-Apr-1999	ND	ND	E0.001	ND	ND	ND	ND	E0.010	ND	E0.008	E0.062	0.144	ND	ND	ND
17-Apr-1999	ND	ND	E0.003	ND	E0.003	ND	ND	E0.093	ND	E0.012	E0.043	0.264	ND	ND	ND
29-Apr-1999								Sample lost							
11-May-1999	ND	ND	E0.002	ND	ND	ND	ND	E0.018	ND	E0.008	E0.017	0.128	ND	ND	ND
23-May-1999	ND	ND	E0.001	ND	ND	ND	ND	ND	ND	E0.009	E0.007	0.107	ND	ND	ND
4-Jun-1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	E0.002	E0.003	E0.023	ND	ND	ND
16-Jun-1999	ND	ND	E0.003	ND	ND	ND	ND	E0.051	ND	ND	E0.011	0.095	ND	ND	ND
28-Jun-1999	ND	ND	E0.001	ND	ND	ND	ND	E0.008	ND	E0.006	E0.012	0.117	ND	ND	ND
10-Jul-1999	ND	ND	E0.002	ND	ND	ND	ND	ND	ND	E0.011	E0.018	0.127	ND	ND	ND
22-Jul-1999	ND	ND	E0.002	ND	ND	ND	ND	ND	ND	E0.012	E0.027	0.226	ND	ND	ND
3-Aug-1999	ND	ND	E0.004	ND	E0.002	ND	ND	ND	ND	E0.006	E0.033	0.267	ND	ND	ND
15-Aug-1999	ND	ND	E0.0005	ND	E0.003	ND	ND	ND	ND	E0.006	E0.006	0.085	ND	ND	ND
27-Aug-1999	ND	ND	E0.003	ND	E0.005	ND	ND	E0.020	ND	E0.007	E0.027	0.193	ND	ND	ND
8-Sep-1999	ND	ND	E0.001	ND	E0.006	ND	ND	ND	ND	E0.010	E0.013	0.148	ND	ND	ND
20-Sep-1999	ND	ND	E0.003	ND	E0.005	ND	ND	ND	ND	E0.009	E0.022	0.235	ND	ND	ND

Table 5B. Analytical results for the remaining VOC analytes for the SWR air sampling site, San Diego County, Calif.—*Continued*

	2-Ethyltoluene	1,2,3-Trimethyl-benzene	1,2,4-Trimethyl-benzene	Isopropylbenzene (Cumene)	<i>N</i> -propylbenzene	1,3,5-Trimethyl-benzene	1-Chloro-2-methyl-benzene	1-Chloro-4-methyl-benzene	Bromochloro methane	<i>N</i> -Butylbenzene	<i>sec</i> -Butylbenzene	<i>tert</i> -Butylbenzene	1-Isopropyl-4-methyl-benzene	1,2,3-Trichloro-propane	1,1,1,2-Tetrachloro-ethane
PCODE	77220	77221	77222	77223	77224	77226	77275	77277	77297	77342	77350	77353	77356	77443	77562
Date	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
24-Mar-1999	E0.015	E0.010	E0.060	E0.003	E0.012	E0.017	ND	ND	ND	E0.001	E0.001	ND	E0.002	ND	ND
5-Apr-1999	E0.015	E0.011	E0.064	E0.006	E0.013	E0.016	ND	ND	ND	E0.002	ND	ND	E0.003	ND	ND
17-Apr-1999	E0.030	E0.027	0.120	E0.010	E0.024	E0.033	ND	ND	ND	E0.005	E0.002	ND	E0.008	ND	ND
29-Apr-1999	Sample lost														
11-May-1999	E0.023	E0.022	0.111	E0.005	E0.017	E0.026	ND	ND	ND	E0.006	E0.001	ND	E0.008	ND	ND
23-May-1999	E0.018	E0.011	0.074	E0.003	E0.017	E0.020	ND	ND	ND	E0.001	E0.001	ND	E0.003	ND	E0.024
4-Jun-1999	E0.004	E0.002	E0.016	E0.001	E0.004	E0.004	ND	ND	ND	ND	ND	ND	E0.002	ND	ND
16-Jun-1999	E0.020	E0.022	0.125	E0.002	E0.017	E0.020	ND	ND	ND	E0.005	ND	ND	E0.006	ND	ND
28-Jun-1999	E0.026	E0.023	0.107	E0.004	E0.022	E0.026	ND	ND	ND	E0.003	E0.001	ND	E0.007	ND	ND
10-Jul-1999	E0.027	E0.016	0.111	E0.005	E0.022	E0.029	ND	ND	ND	E0.003	E0.001	ND	E0.018	ND	ND
22-Jul-1999	E0.044	E0.042	0.192	E0.006	E0.034	E0.052	ND	ND	ND	E0.005	E0.002	ND	E0.031	ND	ND
3-Aug-1999	E0.052	E0.043	0.227	E0.009	E0.041	E0.060	ND	ND	ND	E0.007	E0.003	ND	E0.045	ND	ND
15-Aug-1999	E0.016	E0.011	E0.067	E0.003	E0.014	E0.016	ND	ND	ND	E0.001	E0.0004	ND	E0.007	ND	ND
27-Aug-1999	E0.060	E0.049	0.243	E0.010	E0.047	E0.065	ND	ND	ND	E0.008	E0.003	ND	E0.051	ND	ND
8-Sep-1999	E0.029	E0.023	0.121	E0.005	E0.024	E0.033	E0.001	ND	ND	E0.004	E0.001	ND	E0.016	ND	ND
20-Sep-1999	E0.055	E0.046	0.237	E0.010	E0.043	E0.067	ND	ND	ND	E0.006	E0.002	ND	E0.016	ND	ND

Table 5B. Analytical results for the remaining VOC analytes for the SWR air sampling site, San Diego County, Calif.—*Continued*

	1,2,3-Trichloro-benzene	1,2-Dibromoethane	Methyl tert -butylether (MTBE)	3-Chloro-1-propene	4-Methyl-2-pentanone (MIBK)	Acetone	Bromobenzene	Diethyl ether	Diisopropylether (DIPE)	Methylacrylonitrile	2-Butanone (Methyl ethyl ketone)	Methylmethacrylate	Tetrahydrofran	1,2-Dibromo-3-chloro-propane (DBCP)
PCODE	77613	77651	78032	78109	78133	81552	81555	81576	81577	81593	81595	81597	81607	82625
Date	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
24-Mar-1999	ND	ND	0.478	ND	E0.020	NA	ND	ND	ND	ND	0.164	ND	E0.020	ND
5-Apr-1999	ND	ND	0.493	ND	E0.016	NA	ND	ND	ND	ND	E0.124	ND	ND	ND
17-Apr-1999	ND	ND	1.459	ND	E0.029	NA	ND	ND	ND	ND	0.335	ND	E0.009	ND
29-Apr-1999							Sample lost							
11-May-1999	ND	ND	0.482	ND	E0.017	NA	ND	ND	ND	ND	0.147	ND	ND	ND
23-May-1999	ND	ND	0.843	ND	E0.013	NA	ND	ND	ND	ND	0.228	ND	ND	ND
4-Jun-1999	ND	ND	0.124	ND	E0.003	NA	ND	ND	ND	ND	E0.024	ND	ND	ND
16-Jun-1999	ND	ND	0.526	ND	E0.011	NA	ND	ND	ND	ND	E0.064	ND	ND	ND
28-Jun-1999	ND	ND	0.622	ND	E0.013	NA	ND	ND	ND	ND	0.196	ND	ND	ND
10-Jul-1999	ND	ND	0.871	ND	E0.026	NA	ND	ND	ND	ND	0.258	ND	ND	ND
22-Jul-1999	ND	ND	1.427	ND	E0.025	NA	ND	ND	ND	ND	0.251	ND	ND	ND
3-Aug-1999	ND	ND	1.759	ND	E0.026	NA	ND	ND	ND	ND	0.227	ND	ND	ND
15-Aug-1999	ND	ND	0.641	ND	E0.007	NA	E0.001	ND	ND	ND	0.186	ND	ND	ND
27-Aug-1999	ND	ND	1.108	ND	E0.034	ND	ND	ND	ND	ND	0.213	ND	ND	ND
8-Sep-1999	ND	ND	1.154	0.140	E0.022	1.224	E0.007	ND	ND	ND	0.244	ND	E0.002	ND
20-Sep-1999	ND	ND	1.339	ND	E0.029	1.107	ND	ND	ND	ND	0.377	ND	E0.003	ND

Table 5B. Analytical results for the remaining VOC analytes for the SWR air sampling site, San Diego County, Calif.—*Continued*

PCODE	<i>m,p</i> -Xylene	1,2,3,5-Tetramethyl-benzene	1,2,4,5-Tetramethyl-benzene	Methylacetate	<i>tert</i> -Amylalcohol	<i>tert</i> -Butylalcohol
Date	85795					
	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
24-Mar-1999	0.251	E0.002	E0.002	E0.004	E0.005	E0.112
5-Apr-1999	0.412	E0.004	E0.003	ND	ND	E0.044
17-Apr-1999	0.730	E0.009	E0.007	E0.015	E0.007	0.148
29-Apr-1999		Sample lost				
11-May-1999	0.373	E0.009	E0.007	ND	ND	E0.040
23-May-1999	0.321	E0.003	E0.002	ND	E0.003	E0.029
4-Jun-1999	E0.071	ND	ND	ND	ND	E0.004
16-Jun-1999	0.270	E0.013	E0.010	ND	ND	ND
28-Jun-1999	0.339	E0.005	E0.004	ND	ND	E0.035
10-Jul-1999	0.352	E0.007	E0.004	ND	ND	E0.073
22-Jul-1999	0.649	E0.013	E0.008	ND	ND	0.139
3-Aug-1999	0.771	E0.015	E0.010	ND	E0.004	E0.117
15-Aug-1999	0.202	E0.003	E0.002	E0.012	E0.003	E0.027
27-Aug-1999	0.530	E0.012	E0.008	ND	E0.001	E0.092
8-Sep-1999	0.421	E0.006	E0.004	ND	E0.003	E0.097
20-Sep-1999	0.679	E0.013	E0.010	E0.014	E0.006	E0.155

Table 6. Analytical results for pesticide concentrations from the Sweetwater Reservoir air sampling site, San Diego County, California

[The site identification number is 324141117001601. Air sampling results for pesticides in nanogram per cubic meter (ng/m³). GFF, glass fiber filter; PUF, polyurethane foam; ND, not detected; NA, not analyzed; %, percentage recovery; m³, cubic meter; g, gram; ng/m³, nanogram per cubic meter]

Table 6. Analytical results for pesticide concentrations from the Sweetwater Reservoir air sampling site, San Diego County, California—*Continued*

Begin date sample	Type	Air volume (m ³)	Particle weight (g)	Total suspended particles (µg/m ³)	2,6-Diethyl-aniline (ng/m ³)	Acetochlor (ng/m ³)	Alachlor (ng/m ³)	alpha-HCH (ng/m ³)	Atrazine (ng/m ³)	Benfluralin (ng/m ³)	Butylate (ng/m ³)	Carbaryl (estimated) (ng/m ³)	Carbofuran (estimated) (ng/m ³)
11-May-99	GFF	261.8	0.0153	58.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
01-Jun-99	GFF	268.1	0.0099	36.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
22-Jun-99	GFF	252.9	0.0117	46.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample lost	Top PUF				NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample lost	Back PUF				NA	NA	NA	NA	NA	NA	NA	NA	NA
13-Jul-99	GFF	220.44	0.0065	29.5	ND	ND	ND	ND	ND	ND	ND	0.16	ND
	Top PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
03-Aug-99	GFF	228.14	0.0018	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
24-Aug-99	GFF	261.46	0.0083	31.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
14-Sep-99	GFF	253.69	0.0099	39.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF				ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6. Analytical results for pesticide concentrations from the Sweetwater Reservoir air sampling site, San Diego County, California—*Continued*

Begin date sample	Type	Chlorpyrifos (ng/m ³)	Cyanazine (ng/m ³)	Dacthal (ng/m ³)	Desipropyl atrazine (ng/m ³)	Diazinon (ng/m ³)	Dieldrin (ng/m ³)	Dimethoate (ng/m ³)	Disulfoton (ng/m ³)	Endosulfan I (ng/m ³)	Endosulfan II (ng/m ³)	Endosulfan sulfate (ng/m ³)	EPTC (ng/m ³)
11-May-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01-Jun-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22-Jun-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample lost	Top PUF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample lost	Back PUF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13-Jul-99	GFF	ND	ND	ND	ND	0.08	ND	ND	ND	ND	ND	ND	ND
	Top PUF	0.57	ND	0.07	ND	1.30	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03-Aug-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	0.41	ND	0.10	ND	1.67	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24-Aug-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	1.02	ND	0.09	ND	2.04	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND
14-Sep-99	GFF	ND	ND	ND	ND	0.24	ND	ND	ND	ND	ND	ND	ND
	Top PUF	0.65	ND	0.07	ND	1.24	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6. Analytical results for pesticide concentrations from the Sweetwater Reservoir air sampling site, San Diego County, California—*Continued*

Begin date sample	Type	Ethalfuralin	Ethion	Ethoprophos	Fonofos	Lindane	Linuron	Malathion	Azinphos-methyl	Methyl parathion	Metolachlor	Metribuzin	Molinate
		(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)	(ng/m ³)
11-May-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01-Jun-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22-Jun-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample lost	Top PUF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample lost	Back PUF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13-Jul-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03-Aug-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24-Aug-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	0.56	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14-Sep-99	GFF	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	0.30	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6. Analytical results for pesticide concentrations from the Sweetwater Reservoir air sampling site, San Diego County, California—*Continued*

Begin date sample	Type	Napropamide (ng/m ³)	<i>p,p'</i> -DDE (ng/m ³)	Parathion (ng/m ³)	Pebulate (ng/m ³)	Pendimethilan (ng/m ³)	<i>cis</i> -Permethrin (ng/m ³)	Phorate (ng/m ³)	Prometon (ng/m ³)	Pronamide (ng/m ³)	Propachlor (ng/m ³)	Propanil (ng/m ³)	Propargite (ng/m ³)
11-May-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01-Jun-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22-Jun-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample lost	Top PUF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample lost	Back PUF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13-Jul-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03-Aug-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24-Aug-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14-Sep-99	GFF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Top PUF	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Back PUF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6. Analytical results for pesticide concentrations from the Sweetwater Reservoir air sampling site, San Diego County, California—*Continued*

Begin date sample	Type	Simazine (ng/m ³)	Tebuthiuron (ng/m ³)	Terbacil (ng/m ³)	Terbufos (ng/m ³)	Thiobencarb (ng/m ³)	Triallate (ng/m ³)	Trifluralin (ng/m ³)	alpha-HCH- <i>d</i> ₆ (%)	Diazinon- <i>d</i> ₁₀ (%)
11-May-99	GFF	ND	ND	ND	ND	ND	ND	ND	28	59
	Top PUF	ND	ND	ND	ND	ND	ND	ND	48	80
	Back PUF	ND	ND	ND	ND	ND	ND	ND	47	85
01-Jun-99	GFF	ND	ND	ND	ND	ND	ND	ND	19	31
	Top PUF	ND	ND	ND	ND	ND	ND	ND	47	82
	Back PUF	ND	ND	ND	ND	ND	ND	ND	40	79
22-Jun-99	GFF	ND	ND	ND	ND	ND	ND	ND	29	41
Sample lost	Top PUF	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample lost	Back PUF	NA	NA	NA	NA	NA	NA	NA	NA	NA
13-Jul-99	GFF	ND	ND	ND	ND	ND	ND	ND	59	64
	Top PUF	ND	ND	ND	ND	ND	ND	ND	60	69
	Back PUF	ND	ND	ND	ND	ND	ND	ND	59	59
03-Aug-99	GFF	ND	ND	ND	ND	ND	ND	ND	61	65
	Top PUF	ND	ND	ND	ND	ND	ND	ND	64	78
	Back PUF	ND	ND	ND	ND	ND	ND	ND	68	80
24-Aug-99	GFF	ND	ND	ND	ND	ND	ND	ND	67	67
	Top PUF	ND	ND	ND	ND	ND	ND	ND	68	70
	Back PUF	ND	ND	ND	ND	ND	ND	ND	68	95
14-Sep-99	GFF	ND	ND	ND	ND	ND	ND	ND	61	68
	Top PUF	ND	ND	ND	ND	ND	ND	0.07	61.0	85.0
	Back PUF	ND	ND	ND	ND	ND	ND	ND	65.0	79.0

Table 7. Analytical results for polynuclear aromatic hydrocarbon compound concentrations in core segments and reservoir and urban runoff diversion system pond surficial bed sediment samples, Sweetwater Reservoir, San Diego County, California

[An “E” indicates that the value has been estimated because of interference or is below method reporting limits. The number given below the compound is its parameter code (PCODE). Calif., California; ID, identification; SWR, Sweetwater Reservoir; surf, surficial sample; NA, not analyzed; PAHs, polynuclear aromatic hydrocarbons; URDS, urban runoff diversion system; %, percentage recovery; <, compound was not detected at a concentration above the reporting level; µg/kg, microgram per kilogram; cm, centimeter]

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	Phenol 49413 (µg/kg)	p -Cresol 49451 (µg/kg)	C8-alkyl-phenol (µg/kg)	Naphthalene 49402 (µg/kg)	C1-128 isomers (µg/kg)	2-Ethyl-naphthalene 49948 (µg/kg)	2,6-Dimethyl- naphthalene 49406 (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	E20.7	E33.3	NA	E8.0	<30	<30	162
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	E12.6	E25.2	NA	E5.4	<20	<20	114
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	E8.6	E45.5	NA	E5.8	20.0	<10	91.2
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	E15.2	E57.8	NA	E11.7	31.2	<20	158
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	15.7	23.1	NA	E7.5	33.7	<10	196
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	11.0	10.6	NA	E2.3	11.2	<10	134
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	E5.9	E18.2	NA	E2.5	<10	<10	60.0
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	E8.3	E6.0	NA	E1.7	E5.2	<10	32.3
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	E11.9	E13.9	NA	E5.8	E14.2	<10	90.8
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	E6.2	E4.1	NA	E1.8	<10	<10	37.5
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	16.4	E5.4	NA	E2.2	E7.2	<10	77.8
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	27.5	E7.6	NA	E2.7	<10	<10	83.6
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	12.5	E3.4	NA	E1.4	<10	<10	E3.3
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	12.7	E3.0	NA	E2.2	<10	<10	29.2
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	E10.1	E2.1	NA	E1.5	<10	<10	<10
SWR near pump tower	04-Nov-1998	324130117002501	surf	915	4,900	NA	38.7	82.2	<10	159
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	10.9	39.3	NA	E2.8	12.1	<10	86
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	19.9	54.6	NA	E5.6	19.4	<10	157
SWR near recreation site	04-Nov-1998	324126116595701	surf	60.6	863	NA	10.4	33.8	<10	224
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	33.1	34.6	NA	E4.4	18.1	<10	229
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	E9.6	14.2	NA	E2.4	E8.6	<10	24.6
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	17.7	19.4	NA	E4.2	15.4	<10	146
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	14.6	14.5	NA	E2.8	11.4	<10	69.2
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	16.4	61.0	NA	E3.1	11.6	<10	29.2
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	37.2	68.6	NA	4.4	12.3	<10	54.2
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	12.8	E7.5	NA	E2.7	11.2	<10	41.2
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	25.0	11.7	NA	E2.8	<10	<10	95.8
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	E9.2	67.8	NA	E2.1	E6.6	<10	71.2
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	42.1	14.1	NA	E5.0	20.5	<10	129
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	97.0	E316	NA	28.4	159	14.1	51.0

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	1,6-Dimethyl- naphthalene 49404 (µg/kg)	C2-128 isomers (µg/kg)	Acenaphthylene (µg/kg)	1,2-Dimethyl- naphthalene 49403 (µg/kg)	Acenaphthene 49429 (µg/kg)	C3-128 isomers (µg/kg)	2,3,6-Trimethyl- naphthalene (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	E21.8	E312	<30	<30	<30	E29.2	<30
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	E4.1	E306	<20	<20	<20	21.9	<20
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	E3.0	E167	E2.6	<10	<10	13.2	<10
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	E6.2	E285	E5.3	<20	<20	30.0	<20
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	14.0	221	E3.2	E2.9	E2.3	16.9	E3.2
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	E9.4	156	E2.3	<10	<10	12.6	<10
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	<13.0	E131	E2.4	<10	<10	15.4	<10
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	E4.6	36.0	E2.9	<10	<10	18.4	<10
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	E9.2	E180	<20	<20	<20	21.4	<20
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	E8.2	E81.9	<10	<10	<10	12.8	<10
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	E6.2	93.6	E2.5	E1.5	E1.8	E9.8	E2.0
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	E7.2	99.2	<10	<10	<10	<10	<10
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	E1.0	E6.0	<10	<10	<10	<10	<10
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	E6.2	E65.1	<10	<10	<10	8.6	<10
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	<10	<10
SWR near pump tower	04-Nov-1998	324130117002501	surf	21.2	157	E9.4	<10	E3.3	67.4	<10
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	E7.5	105	E3.0	<10	<10	22.6	<10
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	20.9	256	E2.9	<10	<10	43.9	<10
SWR near recreation site	04-Nov-1998	324126116595701	surf	24.2	345	E4.7	<10	<10	59.0	<10
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	24.0	251	E4.5	<10	<10	39.4	<10
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	E3.6	26.1	E2.6	<10	<10	<10	<10
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	13.3	163	E3.3	<10	<10	38.4	<10
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	12.8	75.6	E3.5	<10	<10	14.5	E2.8
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	E4.9	36.3	E4.6	<10	<10	25.8	<10
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	E6.1	62.9	E3.9	<10	<10	14.3	<10
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	E5.0	60.6	E2.9	<10	<10	<10	<10
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	10.6	105	E4.5	<10	<10	29.1	<10
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	E6.0	81.2	E4.3	<10	E1.1	E7.7	<10
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	14.3	152	E8.3	<10	<10	39.9	<10
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	66.6	E306	26.4	<15	26.7	88.8	24.9

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	9H-Fluorene 49399 (µg/kg)	C4-128 isomers (µg/kg)	1-Methyl-9H-fluorene 49398 (µg/kg)	C1-166 isomers (µg/kg)	Dibenzo-thiophene (µg/kg)	Phenanthrene 49409 (µg/kg)	Anthracene 49434 (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	E6.1	<30	E5.2	NA	NA	E10.2	<30
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	E5.5	<20	<20	NA	NA	E8.6	<20
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	E6.0	<10	E3.1	NA	NA	E9.7	E3.7
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	E15.0	<20	E5.6	NA	NA	E18.1	E5.4
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	16.7	<10	E6.7	NA	NA	16.0	E4.8
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	E7.9	11.3	E4.8	NA	NA	E6.0	E4.1
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	E5.0	<10	<10	NA	NA	E6.3	E3.3
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	E3.7	<10	E1.8	NA	NA	E5.0	E2.6
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	E13.5	<20	E6.4	NA	NA	E14.4	E6.5
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	E3.2	<10	E3.8	NA	NA	E4.0	E3.1
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	E5.5	<10	E3.6	NA	NA	E1.5	E4.8
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	E5.6	<10	E4.6	NA	NA	E6.2	E4.1
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	E1.2	<10	E2.0	NA	NA	E3.1	E2.4
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	E1.8	<10	E1.8	NA	NA	E5.3	E2.2
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	<10	<10	E1.1	NA	NA	E1.8	<10
SWR near pump tower	04-Nov-1998	324130117002501	surf	10.5	53.0	E7.3	NA	NA	14.7	E5.1
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	E4.5	27.8	E2.8	NA	NA	E5.9	E2.4
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	E8.8	49.7	E3.7	NA	NA	11.4	E2.6
SWR near recreation site	04-Nov-1998	324126116595701	surf	E21.9	58.6	E8.5	NA	NA	17.2	E4.4
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	E5.8	E6.8	E2.8	NA	NA	E8.1	E3.8
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	E1.5	<10	E2.0	NA	NA	E1.8	E1.6
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	E7.0	<10	E4.7	NA	NA	E8.8	E3.7
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	E2.2	<10	E6.9	NA	NA	E7.0	E3.5
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	E2.8	<10	E2.8	NA	NA	14.5	4.5
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	E2.5	<10	E2.4	NA	NA	E9.7	E4.3
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	E2.2	<10	E2.4	NA	NA	E5.3	E3.2
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	<10	<10	E4.5	NA	NA	E3.3	E4.5
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	E2.4	<10	<10	NA	NA	10.4	E5.5
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	E4.6	<10	E3.8	NA	NA	25.6	E9.3
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	<22.0	141	E7.4	NA	NA	269	61.8

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	Acridine	Phenanthridine	9H-Carbazol	C5-128 isomers	C2-166 isomers	2-Methyl-Anthracene	4,5-Methylene-phenanthrene
				(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	49435 (µg/kg)	49411 (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<30	NA	<30	E6.3
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<20	NA	<20	E4.9
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	E4.3
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<20	NA	<20	E7.4
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	E6.7
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	E3.7
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	E3.9
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	E3.6
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<20	NA	<20	E8.0
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	E3.7
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	E3	E6.5
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	E3	E6.6
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	<10
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	<10
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	NA	NA	NA	<10	NA	<10	E1.8
SWR near pump tower	04-Nov-1998	324130117002501	surf	NA	NA	NA	<10	NA	<10	<10
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	NA	NA	NA	<10	NA	<10	E4.2
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	NA	NA	NA	<10	NA	<10	E4.5
SWR near recreation site	04-Nov-1998	324126116595701	surf	NA	NA	NA	<10	NA	<10	E6.4
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	NA	NA	NA	24.1	NA	<10	E3.9
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	NA	NA	NA	<10	NA	<10	<10
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	NA	NA	NA	<10	NA	<10	E4.4
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	NA	NA	NA	<10	NA	<10	E3.3
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	NA	NA	NA	<10	NA	<10	E3.4
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	NA	NA	NA	<10	NA	<10	E3.5
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	NA	NA	NA	<10	NA	<10	4.2
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	NA	NA	NA	<10	NA	<10	E5.0
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	NA	NA	NA	<10	NA	<10	E4.2
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	NA	NA	NA	<10	NA	<10	E8.7
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	NA	NA	NA	62.0	NA	30	47.3

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	C1-178 isomers	1-Methyl-Phenanthrene	C3-166 isomers	C2-178 isomers	Fluoranthene	Pyrene	C3-178 isomers
				(µg/kg)	49410 (µg/kg)	(µg/kg)	(µg/kg)	49466 (µg/kg)	49387 (µg/kg)	(µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	<30	<30	NA	<30	E15.7	E17.3	<30
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	<20	<20	NA	<20	E13.6	E13.4	<20
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	<10	<10	NA	<10	15.8	13.3	<10
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	<20	<20	NA	<20	20.9	E17.4	<20
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	17.1	E5.4	NA	10.0	21.0	15.5	E4.9
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	10.0	E2.6	NA	E5.9	15.4	13.6	<10
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	<10	<10	NA	<10	12.1	10.0	<10
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	E5.6	<10	NA	<10	E9.0	E8.8	<10
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	<20	<20	NA	<20	28.4	22.8	<20
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	<10	<10	NA	<10	11.0	E9.0	<10
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	11.5	E2.6	NA	E8.7	23.1	18.0	<10
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	E9.2	<10	NA	<10	16.7	15.2	<10
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	<10	<10	NA	<10	E7.1	11.4	<10
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	<10	<10	NA	<10	E9.0	E8.0	<10
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	<10	<10	NA	<10	E3.7	E3.9	<10
SWR near pump tower	04-Nov-1998	324130117002501	surf	10.5	<10	NA	<10	12.3	E9.9	<10
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	<10	<10	NA	<10	10.9	11.2	<10
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	10.1	<10	NA	<10	15.5	15.7	<10
SWR near recreation site	04-Nov-1998	324126116595701	surf	E6.3	E5.4	NA	E5.1	18.8	17.7	<10
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	INTERFERENCE	<10	NA	<10	14.3	14.6	<10
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	<10	<10	NA	<10	E3.8	E3.2	<10
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	E9.0	E3.9	NA	<10	15.5	16.0	<10
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	10.6	<10	NA	E9.6	15.0	14.8	<10
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	14.5	E3.4	NA	17.1	35.8	33.1	E6.8
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	11.9	E3.7	NA	38.5	27.2	32.0	15.6
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	E3.9	E4.2	NA	13.4	18.5	22.5	13.0
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	<10	E5.60	NA	<80	11.9	12.8	<10
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	10.1	E3.90	NA	16.2	30.0	29.3	E5.5
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	E23.0	E6.0	NA	16.3	75.4	78.6	E9.8
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	485	88.5	NA	504	407	371	367

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	C4-178 isomers	1-Methyl-Pyrene	C1-202 isomers	C2-202 isomers	C5-178 isomers	Benz (a) anthracene	Chrysene
				(µg/kg)	49388 (µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	49436 (µg/kg)	49450 (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	<30	<30	<30	<30	<30	E11.8	E16.1
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	<20	E6.9	<20	<20	<20	E8.5	E12.5
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	<10	<10	E7.6	<10	<10	E7.8	13.3
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	<20	<20	E11.8	E14.0	<20	E8.5	E12.6
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	<10	E4.0	13.9	E8.5	<10	E5.3	E9.4
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	<10	E3.4	E9.8	<10	<10	E5.7	E8.4
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	<10	<10	E5.6	<10	<10	E5.8	11.2
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	<10	<10	E6.4	E3.5	<10	E2.7	E5.4
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	<20	<20	E12.4	<20	<20	E8.8	E15.4
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	<10	<10	E6.4	<10	<10	E5.0	E7.7
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	<10	E3.0	13.4	<10	<10	E2.1	E8.9
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	<10	<10	12.4	<10	<10	E5.4	E8.2
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	<10	<10	E5.7	<10	<10	E4.0	E6.8
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E3.3	E5.2
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E2.0	E3.5
SWR near pump tower	04-Nov-1998	324130117002501	surf	<10	<10	<10	<10	<10	E3.9	E6.5
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	<10	<10	E6.3	<10	<10	E3.1	E7.6
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	<10	E2.6	10.6	<10	<10	E5.0	10.6
SWR near recreation site	04-Nov-1998	324126116595701	surf	<10	E3.4	12.5	<10	<10	E6.2	11.3
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	<10	E2.1	E8.8	13.0	<10	E6.6	10.4
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	<10	<10	<10	<10	<10	E1.0	E2.1
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	<10	E2.8	10.5	16.2	<10	E7.3	12.9
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	<10	E2.7	13.7	16.7	<10	E5.9	15.6
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	<10	E2.8	20.9	27.9	<10	11.3	26.4
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	<10	E3.7	25.3	22.4	20.7	10.2	23.2
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	<10	E4.3	21.3	18.5	<10	E9.7	16.6
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	<10	<10	<10	<10	<10	E4.6	10.3
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	<10	E3.1	20.7	22.7	<10	11.4	22.3
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	<10	E5.7	44.0	71.6	<10	25.8	54.3
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	<200	43.8	E	536	<800	123	315

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	C3-202 isomers	C1-228 isomers	C4-202 isomers	C5-202 isomers	C2-228 isomers	Benzo (b) fluoranthene	Benzo (k) fluoranthene
				(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	49458 (µg/kg)	49397 (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	<30	<30	<30	<30	<30	E18.8	E12.6
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	<20	<20	<20	<20	<20	E11.6	E9.8
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E11.7	E9.1
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	<20	<20	<20	<20	<20	E16.3	E9.5
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	<10	E5.0	<10	<10	<10	E9.9	E8.0
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	<10	E7.6	<10	<10	<10	E8.2	E8.1
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E11.8	E7.8
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E4.5	E4.2
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	<20	E9.5	<20	<20	<20	E13.4	E12.3
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E7.5	E6.2
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	<10	E5.3	<10	<10	<10	E6.8	E9.0
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	<10	E7.2	<10	<10	E6.1	E8.6	E6.9
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E7.2	E4.4
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E6.9	E5.2
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	<10	<10	<10	<10	<10	E3.9	E2.7
SWR near pump tower	04-Nov-1998	324130117002501	surf	<10	<10	<10	<10	<10	E4.7	E5.3
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	<10	<10	<10	<10	<10	E5.6	E4.7
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	<10	E4.3	<10	<10	<10	E8.5	E6.4
SWR near recreation site	04-Nov-1998	324126116595701	surf	<10	<10	<10	<10	<10	11.5	E7.1
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	<10	E3.9	<10	<10	<10	E8.2	E7.4
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	<10	<10	<10	<10	<10	E1.3	E1.8
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	<10	<10	<10	<10	<10	12.0	10.1
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	<10	E6.1	<10	<10	E5.2	13.6	10.2
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	<10	19.8	<10	<10	E9.4	25.4	17.6
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	<10	17.4	<10	<10	17.8	32.2	18.6
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	<10	12.1	<10	<10	<10	19.4	14.8
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	<10	<10	<10	<10	<10	11.2	E8.9
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	<10	11.8	<10	<10	<10	19.8	18.6
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	<10	30.8	<10	<10	28.2	62.0	56.2
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	220	399	191	217	415	137	119

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	Benzo (e) pyrene (µg/kg)	Benzo (a) pyrene 49389 (µg/kg)	Perylene (µg/kg)	C1-252 isomers (µg/kg)	C3-228 isomers (µg/kg)	C2-252 isomers (µg/kg)	C4-228 isomers (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	E13.9	E17.5	462	<30	<30	<30	<30
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	E11.8	E13.6	379	<20	<20	<20	<20
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	E9.6	E9.3	308	<10	<10	<10	<10
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	E11.4	E11.9	464	<20	<20	<20	<20
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	E7.0	E6.5	469	<10	<10	<10	<10
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	E7.0	E7.2	468	<10	<10	<10	<10
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	E8.6	E7.6	417	<10	<10	<10	<10
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	E5.7	<10	233	<10	<10	<10	<10
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	E11.8	E10.0	656	<20	<20	<20	<20
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	E6.5	E5.3	415	<10	<10	<10	<10
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	E6.4	E6.0	464	E7.5	<10	<10	<10
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	E6.2	E5.8	531	E8.5	<10	<10	<10
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	E6.0	E4.6	328	<10	<10	<10	<10
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	E5.1	E4.6	348	<10	<10	<10	<10
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	E3.0	E2.5	122	<10	<10	<10	<10
SWR near pump tower	04-Nov-1998	324130117002501	surf	E6.9	E7.3	10.1	<10	<10	<10	<10
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	E7.3	E3.6	146.0	<10	<10	<10	<10
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	12.5	E2.6	376.0	<10	<10	<10	<10
SWR near recreation site	04-Nov-1998	324126116595701	surf	13.0	E7.2	343	<10	<10	<10	<10
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	E9.9	E8.7	298.0	<10	<10	<10	<10
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	<10	<10	E7.1	<10	<10	<10	<10
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	15.5	12.9	326	<10	<10	<10	<10
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	15.4	17.2	23.2	<10	<10	<10	<10
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	23.0	18.2	21.1	14.8	<10	<10	<10
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	32.5	16.7	E7.8	E7.6	<10	<10	<10
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	25.3	15.0	E7.2	<10	<10	<10	<10
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	14.8	E8.7	<10	<10	<10	<10	<10
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	23.5	17.1	10.9	E8.3	<10	<10	<10
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	74.1	46.9	21.1	48.5	<10	<10	<10
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	195	74.9	100	416	<300	296	73.7

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	Benzo (g,h,i) perylene 49408 (µg/kg)	Indeno (1,2,3-c,d) pyrene 49390 (µg/kg)	Dibenzo (a,h) anthracene 49461 (µg/kg)	C3-252 isomers (µg/kg)	C4-252 isomers (µg/kg)	C5-228 isomers (µg/kg)	C5-252 isomers (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	E18.9	E14.0	<30	<30	<30	<30	<30
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	E14.6	E7.9	E4.5	<20	<20	<20	<20
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	E7.8	E6.4	<10	<10	<10	<10	<10
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	E10.9	E8.1	<20	<20	<20	<20	<20
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	E6.8	E7.6	<10	<10	<10	<10	<10
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	E7.2	E7.8	<10	<10	<10	<10	<10
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	E7.7	E5.4	<10	<10	<10	<10	<10
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	E4.3	E2.5	<10	<10	<10	<10	<10
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	E13.2	E8.7	<20	<20	<20	<20	<20
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	E5.1	E3.8	<10	<10	<10	<10	<10
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	E7.1	E7.4	E3.6	<10	<10	<10	<10
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	E5.9	E7.0	<10	<10	<10	<10	<10
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	12.7	E4.5	<10	<10	<10	<10	<10
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	E8.2	E5.9	<10	<10	<10	<10	<10
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	E4.8	E2.5	<10	<10	<10	<10	<10
SWR near pump tower	04-Nov-1998	324130117002501	surf	<10	<10	<10	<10	<10	<10	<10
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	E5.5	E3.2	<10	<10	<10	<10	<10
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	E8.4	E3.7	<10	<10	<10	<10	<10
SWR near recreation site	04-Nov-1998	324126116595701	surf	E8.8	E7.2	<10	<10	<10	<10	<10
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	NA	E.07	E2.3	<10	<10	<10	<10
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	E1.4	E1.3	<10	<10	<10	<10	<10
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	11.3	E9.1	<10	<10	<10	<10	<10
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	E7.4	E6.9	<10	<10	<10	<10	<10
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	14.0	11.7	E2.7	<10	<10	<10	<10
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	23.4	17.1	E3.4	<10	<10	<10	<10
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	18.2	11.8	E3.1	<10	<10	<10	<10
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	16.0	10.2	<10	<10	<10	<10	<10
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	18.0	18.1	E3.6	<10	<10	<10	<10
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	53.5	42.4	E9.0	<10	<10	<10	<10
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	248	87.5	30.4	138	<10	59.7	<10

Table 7. Analytical results for PAHs from SWR, San Diego County, Calif., core segments, surficial bed sediment, and URDS samples—*Continued*

Site name	Date	Site ID	PCODE Type	Coronene	Nitrobenzene- <i>d</i> ₅ (surrogate)	2-Fluorobiphenyl (surrogate)	Terphenyl- <i>d</i> ₁₄ (surrogate)
				(µg/kg)	(%)	(%)	(%)
SWR Core - Depth 000 - 004 cm	24-Sep-1998	324161116599401	core	<30	NA	NA	NA
SWR Core - Depth 008 - 012 cm	24-Sep-1998	324161116599401	core	E4.6	NA	NA	NA
SWR Core - Depth 016 - 020 cm	24-Sep-1998	324161116599401	core	E2.4	NA	NA	NA
SWR Core - Depth 024 - 028 cm	24-Sep-1998	324161116599401	core	<20	NA	NA	NA
SWR Core - Depth 032 - 036 cm	24-Sep-1998	324161116599401	core	<10	NA	NA	NA
SWR Core - Depth 044 - 048 cm	24-Sep-1998	324161116599401	core	<10	NA	NA	NA
SWR Core - Depth 056 - 060 cm	24-Sep-1998	324161116599401	core	<10	NA	NA	NA
SWR Core - Depth 068 - 072 cm	24-Sep-1998	324161116599401	core	<10	NA	NA	NA
SWR Core - Depth 084 - 088 cm	24-Sep-1998	324161116599401	core	<20	NA	NA	NA
SWR Core - Depth 100 - 104 cm	24-Sep-1998	324161116599401	core	<10	NA	NA	NA
SWR Core - Depth 116 - 120 cm	24-Sep-1998	324161116599401	core	<10	NA	NA	NA
SWR Core - Depth 132 - 136 cm	24-Sep-1998	324161116599401	core	<10	NA	NA	NA
SWR Core - Depth 148 - 152 cm	24-Sep-1998	324161116599401	core	E3.9	NA	NA	NA
SWR Core - Depth 164 - 168 cm	24-Sep-1998	324161116599401	core	E2.6	NA	NA	NA
SWR Core - Depth 180 - 184 cm	24-Sep-1998	324161116599401	core	E1.5	NA	NA	NA
SWR near pump tower	04-Nov-1998	324130117002501	surf	<10	E171.3	78.1	44.0
SWR near Vista del Lago station	04-Nov-1998	324139117000801	surf	<10	95.6	80.0	106.4
SWR center of minimum pool	04-Nov-1998	324131117000101	surf	<10	107.1	73.7	107.0
SWR near recreation site	04-Nov-1998	324126116595701	surf	E4.7	115.2	84.4	125.8
SWR minimum pool boundary East	04-Nov-1998	324137116592401	surf	E2.2	112.9	74.0	71.6
SWR east end fill boundary	04-Nov-1998	324209116585001	surf	<10	73.7	83.8	124.3
SWR near Gum Tree Cove Pond	04-Nov-1998	324147116593501	surf	E4.70	127.1	77.6	92.5
Loveland Reservoir near dam	04-Nov-1998	324703116473101	surf	<10	119.3	81.9	97.4
Loveland Reservoir east end near source inlet	04-Nov-1998	324737116453501	surf	E4.10	119.1	86.0	105.8
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	core	E10.8	128.4	73.0	99.6
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	core	7.1	92.2	87.7	117.8
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	core	<10	93.6	71.6	100.9
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	core	E4.10	63.0	58.2	61.9
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	core	E21.7	133.1	90.8	104.2
URDS Vista del Lago_01	05-Nov-1998	324142117001301	core	E70.0	78.8	85.8	111.5

Table 8. Analytical results for organochlorine insecticides concentrations in selected core segments and reservoir and urban runoff diversion system (URDS) ponds surficial bed sediment samples, Sweetwater and Loveland Reservoirs, San Diego County, California

[An “E” indicates that the value has been estimated because of interference or is below method reporting limits. SWR, Sweetwater Reservoir; surf, surficial sample; NA, not analyzed; <, compound was not detected at a concentration above the reporting level; %, percentage recovery. µg/kg, microgram per kilogram; cm, centimeter]

Site Name	Date	Site ID	Type	Lindane (µg/kg)	Heptachlor (µg/kg)	Aldrin (µg/kg)	Heptachlor epoxide (µg/kg)	Chlor- dane (µg/kg)	Endosulfan I (µg/kg)	Dieldrin (µg/kg)	<i>p,p'</i> -DDE (µg/kg)	Endrin (µg/kg)	<i>p,p'</i> -DDD (µg/kg)	Arochlor 1242 (µg/kg)
SWR Core - Depth 000 - 004 cm	24-Sept-1998	324161116599401	core	<2.50	<2.50	<2.50	<2.50	<15.00	<2.50	<2.50	3.90	<2.50	<2.50	<15.00
SWR Core - Depth 008 - 012 cm	24-Sept-1998	324161116599401	core	<2.00	<2.00	<2.00	<2.00	<10.00	<2.00	<2.00	2.40	<2.00	<2.00	<10.00
SWR Core - Depth 016 - 020 cm	24-Sept-1998	324161116599401	core	<1.00	<1.00	<1.00	<1.00	5.70	<1.00	<1.00	2.60	<1.00	1.00	<5.00
SWR Core - Depth 024 - 028 cm	24-Sept-1998	324161116599401	core	<1.50	<1.50	<1.50	<1.50	<10.00	<1.50	<1.50	3.40	<1.50	2.10	<10.00
SWR Core - Depth 032 - 036 cm	24-Sept-1998	324161116599401	core	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	5.28	<1.25	<1.25	<12.50
SWR Core - Depth 044 - 048 cm	24-Sept-1998	324161116599401	core	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	5.21	<1.25	<1.25	<12.50
SWR Core - Depth 056 - 060 cm	24-Sept-1998	324161116599401	core	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	3.70	<1.00	2.20	<5.00
SWR Core - Depth 068 - 072 cm	24-Sept-1998	324161116599401	core	<0.50	<0.50	<0.50	<0.50	8.40	<0.50	<0.50	5.10	<0.50	3.10	<5.00
SWR Core - Depth 084 - 088 cm	24-Sept-1998	324161116599401	core	<1.50	<1.50	<1.50	<1.50	<10.00	<1.50	<1.50	3.00	<1.50	5.20	<10.00
SWR Core - Depth 100 - 104 cm	24-Sept-1998	324161116599401	core	<0.50	<0.50	<0.50	<0.50	<5.00	<0.50	<0.50	3.30	<0.50	14.00	<5.00
SWR Core - Depth 116 - 120 cm	24-Sept-1998	324161116599401	core	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	8.11	<1.25	21.12	<12.50
SWR Core - Depth 132 - 136 cm	24-Sept-1998	324161116599401	core	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	13.40	<1.25	13.26	<12.50
SWR Core - Depth 148 - 152 cm	24-Sept-1998	324161116599401	core	<0.50	<0.50	<0.50	<0.50	<5.00	<0.50	<0.50	<0.50	<0.50	<0.50	<5.00
SWR Core - Depth 164 - 168 cm	24-Sept-1998	324161116599401	core	<0.50	<0.50	<0.50	<0.50	<5.00	<0.50	<0.50	<0.50	<0.50	<0.50	<5.00
SWR Core - Depth 180 - 184 cm	24-Sept-1998	324161116599401	core	<0.50	<0.50	<0.50	<0.50	<5.00	<0.50	<0.50	<0.50	<0.50	<0.50	<5.00
SWR near Pump Tower	09-Sept-1998	324131117002502	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	5.63	<1.25	<1.25	<12.50
SWR near Vista del Lago	09-Sept-1998	324139117000802	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	2.10	<1.25	<1.25	<12.50
SWR center of minimum pool	09-Sept-1998	324131117000102	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	E4.17	<1.25	<1.25	<12.50
SWR near recreation area	09-Sept-1998	324126116595702	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	3.63	<1.25	<1.25	<12.50
SWR minimum pool boundary East	09-Sept-1998	324137116592402	surf	<1.00	<1.00	<1.00	<1.00	9.40	<1.00	<1.00	3.50	<1.00	<1.00	<5.00
SWR east end res. fill boundary	09-Sept-1998	324209116585002	surf	<0.50	<0.50	<0.50	<0.50	<5.00	<0.50	<0.50	0.93	<0.50	<0.50	<5.00
SWR near Gum Tree Cove	09-Sept-1998	324147116593502	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	E3.55	<1.25	<1.25	<12.50
Loveland Reservoir near dam	09-Sept-1998	324703116473102	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	2.20	<1.25	<1.25	<12.50
Loveland Reservoir east end near source inlet	09-Sept-1998	324737116453502	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	E4.01	<1.25	<1.25	<12.50
URDS Vista del Lago_01	05-Nov-1998	324142117001301	surf	<1.50	<1.00	<1.00	<1.60	92.00	<2.40	<1.00	8.30	<1.00	<5.00	<10.00
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	E3.98	<1.25	<1.25	<12.50
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	2.66	<1.25	<1.25	<12.50
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	E4.50	<1.25	<1.25	<12.50
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	surf	<1.00	<1.00	<1.00	<1.00	10.70	<1.00	<1.00	20.30	<1.00	2.30	<5.00
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	surf	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	E30.60	<1.25	E2.94	<12.50

Table 8. Analytical results for organochlorine insecticides concentrations in selected core segments and reservoir and urban runoff diversion system (URDS) ponds surficial bed sediment samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

Site Name	Date	Site ID	Type	<i>p,p'</i> -DDT (µg/kg)	<i>p,p'</i> -Methoxy- chlor (µg/kg)	Mirex (µg/kg)	Toxa- phene (µg/kg)	Arochlor 1254 (µg/kg)	Arochlor 1260 (µg/kg)	Total PCB (µg/kg)	Isodrin (Surrogate) (%)	Nonachlor- biphenyl (Surrogate) (%)	alpha HCH- <i>d</i> ₆ (Surrogate) (%)
SWR Core - Depth 000 - 004 cm	24-Sept-1998	324161116599401	Core	<2.50	<10.00	<2.50	<250	<15.00	<15.00	<45.00	NA	NA	NA
SWR Core - Depth 008 - 012 cm	24-Sept-1998	324161116599401	Core	<2.00	<8.00	<2.00	<200	<10.00	<10.00	<30.00	NA	NA	NA
SWR Core - Depth 016 - 020 cm	24-Sept-1998	324161116599401	Core	<1.00	<4.00	<1.00	<100	<5.00	<5.00	<15.00	NA	NA	NA
SWR Core - Depth 024 - 028 cm	24-Sept-1998	324161116599401	Core	<1.50	<6.00	<1.50	<150	<10.00	<10.00	<30.00	NA	NA	NA
SWR Core - Depth 032 - 036 cm	24-Sept-1998	324161116599401	Core	<1.25	<5.00	<1.25	<125	<12.50	<12.50	<37.50	NA	NA	NA
SWR Core - Depth 044 - 048 cm	24-Sept-1998	324161116599401	Core	<1.25	<5.00	<1.25	<125	<12.50	<12.50	<37.50	NA	NA	NA
SWR Core - Depth 056 - 060 cm	24-Sept-1998	324161116599401	Core	<1.00	<4.00	<1.00	<100	<5.00	<5.00	<15.00	NA	NA	NA
SWR Core - Depth 068 - 072 cm	24-Sept-1998	324161116599401	Core	E0.54	<2.00	<0.50	<50	<5.00	<5.00	<15.00	NA	NA	NA
SWR Core - Depth 084 - 088 cm	24-Sept-1998	324161116599401	Core	<1.50	<6.00	<1.50	<150	<10.00	<10.00	<30.00	NA	NA	NA
SWR Core - Depth 100 - 104 cm	24-Sept-1998	324161116599401	Core	<0.50	<2.00	<0.50	<50	<5.00	<5.00	<15.00	NA	NA	NA
SWR Core - Depth 116 - 120 cm	24-Sept-1998	324161116599401	Core	<1.25	<5.00	<1.25	<125	<12.50	<12.50	<37.50	NA	NA	NA
SWR Core - Depth 132 - 136 cm	24-Sept-1998	324161116599401	Core	<1.25	<5.00	<1.25	<125	<12.50	<12.50	<37.50	NA	NA	NA
SWR Core - Depth 148 - 152 cm	24-Sept-1998	324161116599401	Core	<0.50	<2.00	<0.50	<50	<5.00	<5.00	<15.00	NA	NA	NA
SWR Core - Depth 164 - 168 cm	24-Sept-1998	324161116599401	Core	<0.50	<2.00	<0.50	<50	<5.00	<5.00	<15.00	NA	NA	NA
SWR Core - Depth 180 - 184 cm	24-Sept-1998	324161116599401	Core	<0.50	<2.00	<0.50	<50	<5.00	<5.00	<15.00	NA	NA	NA
SWR near Pump Tower	09-Sept-1998	324131117002502	surf	<1.25	<5.00	<1.25	<125	<12.50	27.40	NA	101	90	69
SWR near Vista del Lago	09-Sept-1998	324139117000802	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	101	97	83
SWR center of minimum pool	09-Sept-1998	324131117000102	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	83	78	67
SWR near recreation area	09-Sept-1998	324126116595702	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	70	60	49
SWR minimum pool boundary East	09-Sept-1998	324137116592402	surf	<1.00	<4.00	<1.00	<100	<5.00	<5.00	NA	74	66	79
SWR east end res. fill boundary	09-Sept-1998	324209116585002	surf	<0.50	<2.00	<0.50	<50	<5.00	<5.00	NA	112	126	58
SWR near Gum Tree Cove	09-Sept-1998	324147116593502	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	84	89	67
Loveland Reservoir near dam	09-Sept-1998	324703116473102	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	77	83	70
Loveland Reservoir east end near source inlet	09-Sept-1998	324737116453502	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	82	91	70
URDS Vista del Lago_01	05-Nov-1998	324142117001301	surf	<10.00	<7.00	<1.00	<100	8.30	14.00	NA	NA	38	50
URDS Alcena Court Pond_01	05-Nov-1998	324223116585901	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	69	102	92
URDS Alcena Court Pond_02	05-Nov-1998	324221116585801	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	70	100	61
URDS Gumtree Cove Pond_01	05-Nov-1998	324202116593401	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	65	95	76
URDS Hansen's Creek Pond_01	05-Nov-1998	324239116583401	surf	<1.00	<4.00	<1.00	<100	<5.00	<5.00	NA	60	67	89
URDS Hansen's Creek Pond_02	05-Nov-1998	324241116583501	surf	<1.25	<5.00	<1.25	<125	<12.50	<12.50	NA	50	108	79

Table 9. Analytical results for major and trace element concentrations in bed sediment core, Sweetwater Reservoir, San Diego County, California

[The site identification number is 324161116599401. Bed sediment core sampling was done on September 24, 1998. SWR, Sweetwater Reservoir; NA, not analyzed; %, percentage recovery; ng/g, nanogram per gram; cm, centimeter]

Site name	Major metals								Trace metals			
	Silicon (%)	Calcium (%)	Magnesium (%)	Potassium (%)	Sodium (%)	Phosphorus (%)	Total carbon (%)	Organic carbon (%)	Aluminum (%)	Iron (%)	Titanium (%)	Nitrogen (%)
SWR Core - Depth 000 - 004 cm	19.28	1.81	1.13	0.30	0.50	0.088	3.26	3.05	5.81	5.56	0.54	0.33
SWR Core - Depth 008 - 012 cm	22.02	1.59	1.05	0.28	0.49	0.096	3.06	2.83	6.38	5.66	0.54	0.32
SWR Core - Depth 016 - 020 cm	22.23	1.59	1.03	0.30	0.49	0.088	2.92	2.78	7.56	6.00	0.58	0.30
SWR Core - Depth 024 - 028 cm	19.47	2.73	1.15	0.37	0.54	0.093	3.46	3.04	7.11	5.77	0.54	0.32
SWR Core - Depth 024 - 028 cm	21.79	2.59	1.23	0.41	0.54	0.097	3.41	3.05	7.36	5.91	0.54	0.30
SWR Core - Depth 032 - 036 cm	20.40	2.39	1.30	0.46	0.53	0.093	3.40	3.02	8.59	6.16	0.54	0.29
SWR Core - Depth 040 - 044 cm	21.23	1.96	1.18	0.40	0.46	0.090	3.05	2.75	8.94	6.06	0.53	0.31
SWR Core - Depth 048 - 052 cm	13.61	1.51	1.00	0.28	0.49	0.110	2.76	2.56	7.99	6.24	0.56	0.29
SWR Core - Depth 056 - 060 cm	22.35	1.68	0.98	0.36	0.50	0.110	2.80	2.59	8.10	6.05	0.54	0.27
SWR Core - Depth 064 - 068 cm	22.30	1.45	0.95	0.57	0.49	0.120	2.60	2.45	10.78	6.85	0.58	0.26
SWR Core - Depth 072 - 076 cm	22.25	2.36	1.23	0.54	0.55	0.093	3.51	3.22	9.13	6.12	0.54	0.30
SWR Core - Depth 080 - 084 cm	22.34	2.79	1.03	0.39	0.54	0.089	3.73	3.17	6.59	5.83	0.55	0.33
SWR Core - Depth 088 - 092 cm	22.10	2.46	0.98	0.37	0.50	0.083	8.52	2.99	7.04	5.77	0.55	0.76
SWR Core - Depth 096 - 100 cm	22.92	2.05	0.90	0.34	0.51	0.095	4.70	2.95	6.09	5.98	0.56	NA
SWR Core - Depth 104 - 108 cm	19.60	1.93	0.90	0.38	0.54	0.100	3.11	2.84	7.30	5.86	0.49	0.27
SWR Core - Depth 104 - 108 cm	20.44	1.99	0.91	0.42	0.58	0.100	3.10	2.90	7.21	5.59	0.47	0.28
SWR Core - Depth 112 - 116 cm	20.94	1.96	0.85	0.31	0.53	0.084	3.19	2.85	5.66	5.50	0.49	0.03
SWR Core - Depth 120 - 124 cm	19.63	1.81	0.75	0.24	0.56	0.081	3.22	2.96	4.53	5.30	0.51	0.28
SWR Core - Depth 128 - 132 cm	20.35	1.37	0.75	0.34	0.55	0.085	3.54	3.51	4.80	5.60	0.48	0.37
SWR Core - Depth 136 - 140 cm	22.54	1.34	0.60	0.93	0.46	0.083	2.96	2.96	7.50	5.85	0.48	0.29
SWR Core - Depth 144 - 148 cm	22.76	1.38	0.70	0.30	0.56	0.094	2.74	2.74	7.60	5.71	0.52	0.21
SWR Core - Depth 152 - 156 cm	25.65	1.73	0.98	1.32	0.83	0.066	2.70	2.69	9.29	6.31	0.58	0.02
SWR Core - Depth 160 - 164 cm	20.47	1.91	1.10	0.74	1.29	0.059	2.35	2.28	5.48	4.99	0.60	0.02
SWR Core - Depth 168 - 172 cm	23.48	1.48	0.78	0.29	0.56	0.089	2.64	2.70	7.15	5.92	0.53	0.21
SWR Core - Depth 176 - 180 cm	21.68	1.50	0.58	0.31	0.39	0.092	2.70	2.08	5.93	5.79	0.52	0.02
SWR Core - Depth 184 - 188 cm	24.96	1.76	1.15	0.90	1.03	0.066	2.46	3.36	7.23	5.61	0.58	0.02

Table 9. Results for major and trace metals from the Sweetwater bed sediment core, California—*Continued*

Site name	Trace metals														
	Arsenic (ng/g)	Barium (ng/g)	Cadmium (ng/g)	Chromium (ng/g)	Cobalt (ng/g)	Copper (ng/g)	Lead (ng/g)	Lithium (ng/g)	Manganese (ng/g)	Mercury (ng/g)	Nickel (ng/g)	Scandium (ng/g)	Strontium (ng/g)	Vanadium (ng/g)	Zinc (ng/g)
SWR Core - Depth 000 - 004 cm	18.7	235	0.13	42	25.8	87	25	49.5	1,750	0.066	21.8	10.1	36	179	153
SWR Core - Depth 008 - 012 cm	15.0	202	0.13	42	25.6	90	27	53.4	1,730	0.052	24.3	9.5	30	186	151
SWR Core - Depth 016 - 020 cm	15.0	200	0.13	46	24.7	103	22	53.9	1,590	0.056	22.1	10.5	35	186	154
SWR Core - Depth 024 - 028 cm	24.8	284	0.18	53	25.0	128	29	61.3	1,570	0.057	23.5	11.1	62	178	150
SWR Core - Depth 024 - 028 cm	25.6	274	0.21	48	24.9	130	23	63.1	1,480	0.059	26.2	12.2	56	178	150
SWR Core - Depth 032 - 036 cm	26.1	256	0.19	51	25.8	151	28	66.9	1,510	0.055	22.3	11.0	59	180	150
SWR Core - Depth 040 - 044 cm	25.6	186	0.17	53	26.6	143	22	54.4	1,600	0.064	22.0	12.0	41	184	140
SWR Core - Depth 048 - 052 cm	18.7	163	0.16	52	30.8	112	18	51.8	1,710	0.054	23.1	11.0	31	195	151
SWR Core - Depth 056 - 060 cm	18.5	153	0.19	51	29.4	109	28	55.6	1,670	0.058	25.2	11.4	29	189	147
SWR Core - Depth 064 - 068 cm	21.6	277	0.22	56	28.7	101	19	61.8	1,530	0.062	24.9	10.5	55	205	163
SWR Core - Depth 072 - 076 cm	22.0	286	0.24	57	26.2	183	34	65.1	1,440	0.057	25.9	11.5	68	179	141
SWR Core - Depth 080 - 084 cm	17.6	272	0.20	53	28.0	222	27	73.4	1,330	0.055	21.7	11.1	60	187	141
SWR Core - Depth 088 - 092 cm	20.9	263	0.20	56	23.7	184	34	63.0	1,150	0.050	26.0	10.3	58	185	131
SWR Core - Depth 096 - 100 cm	13.4	205	0.22	53	29.2	221	23	68.9	1,180	0.049	21.7	10.8	46	204	141
SWR Core - Depth 104 - 108 cm	14.1	223	0.22	51	31.0	205	26	78.6	1,190	0.046	28.6	10.8	53	199	137
SWR Core - Depth 104 - 108 cm	15.2	230	0.20	57	30.4	200	29	85.6	1,300	0.045	29.3	9.9	58	194	149
SWR Core - Depth 112 - 116 cm	18.8	216	0.24	57	30.8	233	22	77.8	1,220	0.050	28.9	9.3	44	198	139
SWR Core - Depth 120 - 124 cm	19.8	200	0.26	51	28.1	324	18	74.9	1,250	0.055	26.3	8.4	39	194	151
SWR Core - Depth 128 - 132 cm	22.6	251	0.34	51	28.6	513	29	78.3	1,260	0.061	26.1	7.5	42	202	160
SWR Core - Depth 136 - 140 cm	25.4	207	0.27	64	33.2	304	29	86.3	1,160	0.035	28.8	10.7	83	209	154
SWR Core - Depth 144 - 148 cm	15.1	272	0.19	60	31.0	97	20	67.6	900	0.044	33.9	9.1	52	213	143
SWR Core - Depth 152 - 156 cm	16.7	241	0.10	71	34.6	53	28	44.8	839	0.027	24.1	9.0	93	186	137
SWR Core - Depth 160 - 164 cm	11.9	240	0.080	58	33.6	48	21	37.9	1,120	0.028	22.1	7.4	56	179	137
SWR Core - Depth 168 - 172 cm	12.3	226	0.12	58	30.0	99	28	59.6	951	0.040	24.9	10.2	37	209	141
SWR Core - Depth 176 - 180 cm	15.5	302	0.070	60	32.2	95	34	66.1	849	0.040	33.2	8.9	34	223	140
SWR Core - Depth 184 - 188 cm	11.5	363	0.060	63	34.4	54	30	48.9	878	0.030	24.0	7.9	70	188	144

Table 10. Results of cesium 137 age determinations and estimated dates for bed sediment core segments, Sweetwater Reservoir, San Diego County, California

[The site identification number is 324161116599401. Bed sediment core sections were sampled on September 24, 1998. SWR, Sweetwater Reservoir. cm, centimeter; pCi/g, pico curie per gram]

Site name	Cesium 137 (pCi/g)	Estimated date
SWR core - depth 008–016 cm	0.107	1997
SWR core - depth 028–036 cm	0.216	1990
SWR core - depth 044–052 cm	0.259	1987
SWR core - depth 060–068 cm	0.307	1981
SWR core - depth 076–084 cm	0.252	1978
SWR core - depth 088–092 cm	0.130	1971
SWR core - depth 096–100 cm	0.273	1968
SWR core - depth 104–108 cm	0.264	1966
SWR core - depth 112–116 cm	0.521	1962
SWR core - depth 120–124 cm	0.276	1959
SWR core - depth 128–132 cm	0.290	1957
SWR core - depth 136–140 cm	0.0895	1953
SWR core - depth 152–156 cm	–0.0256	1945
SWR core - depth 168–172 cm	0.0548	1935

Table 11. Visual descriptive comments of core contents, color, and texture for the Sweetwater Reservoir sampling sites, San Diego County, California

[General description: 216 cm (centimeter) long/dark with gas pockets and some layering to almost 130 cm; more tan with smaller gas pockets from about 130–216 cm with small, sparkly dots. No organic detritus or visible biota in entire core. mm, millimeter]

Depth Interval (cm)	Color	Description
0–5	Olive black (5Y 2/1) with olive gray (5Y 4/1) streaks	Soft, fine grained, fluid
5–10	Mostly olive black	Silty (no sand but not very sticky)
10–15	Olive gray with streaks of olive black	Trending to all olive gray
15–26	Olive gray	Gas pockets (1–4 mm); soft; no sand
26–40	Olive black (oxidizes to olive gray)	Same texture as above
40–58	Slightly lighter but still olive black	Same texture as above; few gas pockets
58–60	Distinctive tan layer— olive gray (5Y 3/2)	Same soft texture
60–72	A little darker (5Y 4/1 to 5Y 2/1)	Same soft texture
72–75	Mottled olive gray and black	Firmer texture; no sand
75–127	Uniform olive black	Smaller gas pockets (1 mm), firmer and drier; no sand but maybe more clay
127–140	Mottled olive gray with few streaks of olive black	Firmer texture
140–144	Mottled/streaky olive black and gray	No data
144–148	Mostly olive gray with olive black streaks at 148cm	No data
148–158	Very uniform olive gray	Almost no gas pockets; smooth and stiffer
158–173	Distinctive uniform olive gray	Drier; no gas pockets; siltier; lots of small sparkles
173–180	A few dark streaks	Sudden change to no sparkles; smoother; more clayey; few small gas pockets
180–183	Olive black layer with olive gray streaks	Same texture as above
183–202	Olive gray with a few olive black streaks	Smooth with a few small gas pockets; no sand
202–216	Trending to same stuff as 158–173 cm layer	Drier and firmer with almost no gas pockets; silty with lots of sparkles

Table 12. Quality assurance analytical results for volatile organic compound (VOC) concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California

[Time is denoted in 24-hour scale. An “E” indicates that the value has been estimated because of interference or is below method reporting limits. The number given below each compound is its parameter code (PCODE). ID, identification; SWR, Sweetwater Reservoir; QC, quality control; QA, quality assurance; CA, California; NA, not analyzed; —, no data; %, percentage recovery; <, compound was not detected at a concentration above the reporting level; µg/L, microgram per liter]

PCODE					Acetate vinyl 77057	Acrolein total 34210	1,1,1-Trichloroethane 34506	1,1,2-Trichloroethane 34511	1,1-Dichloroethane 34496	1,1-Dichloroethylene 34501	1,1-Dichloropropene 77168
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	NA	NA	<0.03	<0.06	<0.07	<0.04	<0.03
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	NA	NA	<0.03	<0.06	<0.07	<0.04	<0.03
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	NA	NA	<0.03	<0.06	<0.07	<0.04	<0.03
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	NA	NA	0.56	0.74	0.84	0.10	0.58
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	NA	NA	<0.03	<0.06	<0.07	<0.04	<0.03
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	NA	NA	<0.03	<0.06	<0.07	<0.04	<0.03
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	NA	NA	0.24	0.41	0.37	0.25	0.23
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	NA	NA	<0.03	<0.06	<0.07	<0.04	<0.03
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	NA	NA	<0.03	<0.06	<0.07	<0.04	<0.03
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	NA	NA	<0.03	<0.06	<0.07	<0.04	<0.03

PCODE					1,2,3-Trichloropropane 77443	1,2-Dibromoethane 77651	1,2-Dichloroethane 32103	1,2-Dichloropropane 34541	trans-1,2-Dichloroethylene 34546	2,2-Dichloropropane 77170	trans-1,4-Dichloro-2-butene 73547
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.2	<0.04	<0.1	<0.07	<0.03	<0.08	<0.7
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.2	<0.04	<0.1	<0.07	<0.03	<0.08	<0.7
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.2	<0.04	<0.1	<0.07	<0.03	<0.08	<0.7
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	2.1	0.56	1.5	0.87	0.63	0.48	E8.8
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.2	<0.04	<0.1	<0.07	<0.03	<0.08	<0.7
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.2	<0.04	<0.1	<0.07	<0.03	<0.08	<0.7
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	1.2	0.32	0.8	0.39	0.23	0.28	3.6
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.2	<0.04	<0.1	<0.07	<0.03	<0.08	<0.7
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.2	<0.04	<0.1	<0.07	<0.03	<0.08	<0.7
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.2	<0.04	<0.1	<0.07	<0.03	<0.08	<0.7

Table 12. Quality assurance analytical results for volatile organic compound (VOC) concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

					2-Hexanone	Acetone	Acrylonitrile	1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene
PCODE					77103	81552	34215	77613	77221	34551	77222
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.7	<5	<1	<0.3	<0.1	<0.2	<0.06
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.7	<5	<1	<0.3	<0.1	<0.2	<0.06
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.7	<5	<1	<0.3	<0.1	<0.2	<0.06
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	8.9	78	15	2.8	1.4	1.9	0.65
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.7	<5	<1	<0.3	<0.1	<0.2	<0.06
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.7	<5	<1	<0.3	<0.1	<0.2	<0.06
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	4.8	43	9	1.4	0.6	0.9	0.3
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.7	<5	<1	<0.3	<0.1	<0.2	<0.06
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.7	<5	<1	<0.3	<0.1	<0.2	<0.06
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.7	<5	<1	<0.3	<0.1	<0.2	<0.06

					1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Isopropylbenzene	Butylbenzene	n-Propylbenzene	1,2-Dichlorobenzene
PCODE					77226	34566	34571	77223	77342	77224	34536
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.04	<0.05	<0.05	<0.03	<0.2	<0.04	<0.05
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.04	<0.05	<0.05	<0.03	<0.2	<0.04	<0.05
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.04	<0.05	<0.05	<0.03	<0.2	<0.04	<0.05
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.55	0.51	0.5	0.56	1.6	0.5	0.52
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.04	<0.05	<0.05	<0.03	<0.2	<0.04	<0.05
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.04	<0.05	<0.05	<0.03	<0.2	<0.04	<0.05
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	0.24	0.25	0.26	0.24	0.8	0.23	0.29
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.04	<0.05	<0.05	<0.03	<0.2	<0.04	<0.05
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.04	<0.05	<0.05	<0.03	<0.2	<0.04	<0.05
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.04	<0.05	<0.05	<0.03	<0.2	<0.04	<0.05

Table 12. Quality assurance analytical results for volatile organic compound (VOC) concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE					sec-Butylbenzene 77350	tert-Butylbenzene 77353	Benzene 34030	Bromobenzene 81555	Bromoethene 50002	Bromoform 32104	Carbon disulfide 77041
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.05	<0.1	<0.1	<0.04	<0.1	<0.1	<0.37
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.05	<0.1	E0.01	<0.04	<0.1	<0.1	<0.37
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.05	<0.1	<0.1	<0.04	<0.1	<0.1	<0.37
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.52	1.08	0.58	0.52	1.2	1.3	0.97
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.05	<0.1	<0.1	<0.04	<0.1	<0.1	<0.37
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.05	<0.1	<0.1	<0.04	<0.1	<0.1	<0.37
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	0.24	0.49	0.26	0.26	0.5	0.6	E0.34
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.05	<0.1	<0.1	<0.04	<0.1	<0.1	<0.37
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.05	<0.1	<0.1	<0.04	<0.1	<0.1	<0.37
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.05	<0.1	<0.1	<0.04	<0.1	<0.1	<0.37

PCODE					Tetrachloromethane 32102	Chlorobenzene 34301	Chloroethane 34311	Dibromochloromethane 32105	Chloroform 32106	cis-1,2-Dichloroethylene 77093	cis-1,3-Dichloropropene 34704
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.09	<0.03	<0.1	<0.2	0.15	<0.04	<0.09
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.09	<0.03	<0.1	E0.1	0.16	<0.04	<0.09
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.09	<0.03	<0.1	<0.2	E0.01	<0.04	<0.09
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.93	0.54	1.3	2.1	0.73	0.58	0.85
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.09	<0.03	<0.1	<0.2	<0.05	<0.04	<0.09
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.09	<0.03	<0.1	<0.2	<0.05	<0.04	<0.09
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	0.42	0.26	0.5	1.1	0.28	0.25	0.42
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.09	<0.03	<0.1	<0.2	<0.05	<0.04	<0.09
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.09	<0.03	<0.1	<0.2	<0.05	<0.04	<0.09
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.09	<0.03	<0.1	<0.2	0.13	<0.04	<0.09

Table 12. Quality assurance analytical results for volatile organic compound (VOC) concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE					1,2-Dibromo-3-chloropropane	Dibromomethane	Bromodichloromethane	Dichlorodifluoromethane	Diisopropyl ether	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
Site name					82625	30217	32101	34668	81577	77562	34516
					(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.2	<0.05	E0.01	<0.1	<0.1	<0.04	<0.13
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.2	<0.05	0.16	<0.1	<0.1	<0.04	<0.13
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.2	<0.05	<0.05	<0.1	<0.1	<0.04	<0.13
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	2.2	0.6	0.68	E1.3	1.2	0.52	1.69
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.2	<0.05	<0.05	<0.1	<0.1	<0.04	<0.13
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.2	<0.05	<0.05	<0.1	<0.1	<0.04	<0.13
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	1.3	0.31	0.28	E0.3	0.5	0.24	0.84
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.2	<0.05	<0.05	<0.1	<0.1	<0.04	<0.13
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.2	<0.05	<0.05	<0.1	<0.1	<0.04	<0.13
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.2	<0.05	<0.05	<0.1	<0.1	<0.04	<0.13

PCODE					Hexachloroethane	Diethyl ether	Ethyl <i>tert</i> -butyl ether	<i>tert</i> -Pentyl methyl ether	Ethylbenzene	1,1,2-Trichlorotrifluoroethane	Tetrahydrofuran
Site name					34396	81576	50004	50005	34371	77652	81607
					(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.4	<0.2	<0.05	<0.1	<0.03	<0.03	<9
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.4	<0.2	<0.05	<0.1	<0.03	<0.03	<9
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.4	<0.2	<0.05	<0.1	<0.03	<0.03	<9
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	4.7	2.1	0.53	1.1	0.57	0.51	24
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.4	<0.2	<0.05	<0.1	<0.03	<0.03	<9
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.4	<0.2	<0.05	<0.1	<0.03	<0.03	<9
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	1.5	0.9	0.27	0.7	0.25	0.2	14
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.4	<0.2	<0.05	<0.1	<0.03	<0.03	<9
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.4	<0.2	<0.05	<0.1	<0.03	<0.03	<9
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.4	<0.2	<0.05	<0.1	<0.03	<0.03	<9

Table 12. Quality assurance analytical results for volatile organic compound (VOC) concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

					Hexachlorobutadiene	1,2,3,5-Tetramethylbenzene	Ethyl methacrylate	Methyl methacrylate	Methyl acrylonitrile	Bromochloromethane	Methyl acrylate
PCODE					39702	50000	73570	81597	81593	77297	49991
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.1	<0.2	<0.3	<0.3	<0.6	<0.04	<1
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.1	<0.2	<0.3	<0.3	<0.6	<0.04	<1
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.1	<0.2	<0.3	<0.3	<0.6	<0.04	<1
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	1.2	3.0	3.0	4.1	6.7	0.55	19
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.1	<0.2	<0.3	<0.3	<0.6	<0.04	<1
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.1	<0.2	<0.3	<0.3	<0.6	<0.04	<1
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	0.6	1.0	1.6	2.6	4.4	0.29	11
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.1	<0.2	<0.3	<0.3	<0.6	<0.04	<1
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.1	<0.2	<0.3	<0.3	<0.6	<0.04	<1
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.1	<0.2	<0.3	<0.3	<0.6	<0.04	<1

					Methyl iodide	tert-Butyl methyl ether	Bromomethane	Chloromethane	Dichloromethane	2-Butanone	4-Methyl-2-pentanone
PCODE					77424	78032	34413	34418	34423	81595	78133
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.2	E0.1	<0.1	<0.2	<0.4	<2	<0.4
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.2	0.2	<0.1	<0.2	<0.4	<2	<0.4
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.2	<0.2	<0.1	<0.2	<0.4	<2	<0.4
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	E1.3	2.1	E1.6	E1.8	4.7	22	4.1
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.2	E0.1	<0.1	<0.2	<0.4	<2	<0.4
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.2	<0.2	<0.1	<0.2	<0.4	<2	<0.4
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	E0.4	1.4	E0.5	E0.9	1.9	12	2.6
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.2	0.2	<0.1	—	<0.4	<2	<0.4
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.2	<0.2	<0.1	<0.3	<0.4	<2	<0.4
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.2	E0.1	<0.1	<0.2	<0.4	<2	<0.4

Table 12. Quality assurance analytical results for volatile organic compound (VOC) concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

					<i>m</i> - and <i>p</i> -Xylene	Naphthalene	2-Chlorotoluene	<i>O</i> -Xylene	4-Isopropyl-1-methylbenzene	1,2,3,4-Tetramethylbenzene	1,3-Dichloropropane
PCODE					85795	34696	77275	77135	77356	49999	77173
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	E0.02	<0.2	<0.04	<0.06	<0.11	<0.2	<0.1
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.06	<0.2	<0.04	<0.06	<0.11	<0.2	<0.1
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	—	<0.2	<0.04	<0.06	<0.11	<0.2	<0.1
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	1.41	E5.4	0.54	0.71	1.01	E3.4	1.4
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.06	<0.2	<0.04	<0.06	<0.11	<0.2	<0.1
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.06	<0.2	<0.04	<0.06	<0.11	<0.2	<0.1
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	0.63	1.5	0.23	0.33	0.47	1.3	0.8
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.06	<0.2	<0.04	<0.06	<0.11	<0.2	<0.1
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.06	<0.2	<0.04	<0.06	<0.11	<0.2	<0.1
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.06	<0.2	<0.04	<0.06	<0.11	<0.2	<0.1

					3-Chloropropene	Styrene	Tetrachloroethylene	<i>O</i> -Ethyl toluene	4-Chlorotoluene	Toluene	<i>trans</i> -1,3-Dichloropropene
PCODE					78109	77128	34475	77220	77277	34010	34699
Site name	Date	Time	Site ID	Sample type	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SWR near Vista Del Lago station	12-Jul-1999	1208	324139117000801	Blank	<0.2	E0.01	<0.1	<0.1	<0.06	E0.02	<0.13
SWR center of minimum pool	1-Mar-1999	1131	324131117000101	Replicate	<0.2	<0.04	<0.1	<0.1	<0.06	<0.05	<0.13
SWR center of minimum pool	1-Mar-1999	1138	324131117000101	Blank	<0.2	<0.04	<0.1	<0.1	<0.06	E0.01	<0.13
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	1	0.59	1.2	1.05	0.59	0.61	1.20
Loveland Reservoir near dam site 1	4-Nov-1998	1041	324703116473101	Replicate	<0.2	<0.04	<0.1	<0.1	<0.06	E0.01	<0.13
Loveland Reservoir near dam site 1	4-Nov-1998	1048	324703116473101	Blank	<0.2	<0.04	<0.1	<0.1	<0.06	<0.05	<0.13
Loveland Reservoir near dam site 1	21-Sep-1999	1023	324703116473101	Spike	0.3	0.24	0.6	0.44	0.28	0.27	0.72
Loveland Reservoir East end near source inlet site 2	4-May-1999	1131	324737116453501	Replicate	<0.2	<0.04	<0.1	<0.1	<0.06	E0.02	<0.13
QC/QA site for Sacramento project office CA	9-Sep-1998	1418	88888801	Blank	<0.2	<0.04	<0.1	<0.1	<0.06	<0.05	<0.13
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.2	<0.04	<0.1	<0.1	<0.06	E0.01	<0.13

Table 12. Quality assurance analytical results for volatile organic compound (VOC) concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

PCODE		Date	Time	Site ID	Sample type	Trichloroethylene	Vinyl chloride	1,4-Bromofluorobenzene (surrogate)	1,2-Dichloroethane- <i>d</i> ₄ (surrogate)	Toluene- <i>d</i> ₈ (surrogate)
Site name						34488 (µg/L)	39175 (µg/L)	99834 (%)	99832 (%)	99833 (%)
SWR near Vista Del Lago station		12-Jul-1999	1208	324139117000801	Blank	<0.09	<0.1	95	105	100
SWR center of minimum pool		1-Mar-1999	1131	324131117000101	Replicate	<0.09	<0.1	88	107	93
SWR center of minimum pool		1-Mar-1999	1138	324131117000101	Blank	<0.09	<0.1	91	108	94
SWR east end reservoir fill boundary		10-Sep-1998	1313	324209116585001	Spike	0.94	1.3	100	93	99
Loveland Reservoir near dam site 1		4-Nov-1998	1041	324703116473101	Replicate	<0.09	<0.1	109	130	103
Loveland Reservoir near dam site 1		4-Nov-1998	1048	324703116473101	Blank	<0.09	<0.1	104	118	100
Loveland Reservoir near dam site 1		21-Sep-1999	1023	324703116473101	Spike	0.38	0.4	88	92	97
Loveland Reservoir East end near source inlet site 2		4-May-1999	1131	324737116453501	Replicate	<0.09	<0.1	92	106	98
QC/QA site for Sacramento project office CA		9-Sep-1998	1418	88888801	Blank	0.09	0.1	96	92	99
QC/QA site for Sacramento project office CA		7-Sep-1999	1118	88888801	Blank	0.09	0.1	92	104	91

Table 13. Quality assurance analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California

[Time is denoted in 24-hour scale. An “E” indicates that the value has been estimated because of interference or is below method reporting limits. The number given below each compound is its parameter code (PCODE). ID, identification; SWR, Sweetwater Reservoir; QC, quality control; QA, quality assurance; CA, California; %, percentage recovery; <, compound was not detected at a concentration above the reporting level; mg/L, milligram per liter]

PCODE	Site name	Date	Time	Site ID	Sample type	2,6-Diethylaniline	Acetochlor	Alachlor	alpha-HCH	Atrazine	Benfluralin
						82660 (mg/L)	49260 (mg/L)	46342 (mg/L)	34253 (mg/L)	39632 (mg/L)	82673 (mg/L)
	SWR near pump tower	12-Jul-1999	1131	324130117002501	Replicate	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002
	SWR center of minimum pool	6-Jan-1999	1031	324131117000101	Replicate	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002
	SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.101	0.117	0.123	0.130	0.124	0.110
	SWR east end reservoir fill boundary	1-Mar-1999	1248	324209116585001	Blank	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002
	Loveland Reservoir near dam site 1	2-Mar-1999	1153	324703116473101	Spike	0.095	0.101	0.120	0.098	0.112	0.078
	QC/QA site for Sacramento project office CA	9-Sep-1998	1408	88888801	Blank	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002
	QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.003	<0.002	<0.002	<0.002	<0.001	<0.002

PCODE	Site name	Date	Time	Site ID	Sample type	Butylate	Carbaryl	Carbofuran	Chlorpyrifos	Cyanazine	Dacthal
						4028 (mg/L)	82680 (mg/L)	82674 (mg/L)	38933 (mg/L)	4041 (mg/L)	82682 (mg/L)
	SWR near pump tower	12-Jul-1999	1131	324130117002501	Replicate	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
	SWR center of minimum pool	6-Jan-1999	1031	324131117000101	Replicate	0.002	<0.003	<0.003	<0.004	<0.004	<0.002
	SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.120	E1.000	E0.524	0.116	0.160	0.115
	SWR east end reservoir fill boundary	1-Mar-1999	1248	324209116585001	Blank	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
	Loveland Reservoir near dam site 1	2-Mar-1999	1153	324703116473101	Spike	0.108	E0.104	E0.137	0.100	0.121	0.122
	QC/QA site for Sacramento project office CA	9-Sep-1998	1408	88888801	Blank	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
	QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	0.002	<0.003	<0.003	<0.004	<0.004	0.002

Table 13. Quality assurance analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

					Deethylatrazine	Diazinon	Dieldrin	Disulfoton	EPTC	Ethalfuralin
PCODE					4040	39572	39381	82677	82668	82663
Site name	Date	Time	Site ID	Sample type	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SWR near pump tower	12-Jul-1999	1131	324130117002501	Replicate	<0.002	<0.002	<0.001	<0.017	<0.002	<0.004
SWR center of minimum pool	6-Jan-1999	1031	324131117000101	Replicate	<0.002	<0.002	<0.001	<0.017	<0.002	<0.004
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	E0.069	0.126	0.102	0.091	0.119	0.107
SWR east end reservoir fill boundary	1-Mar-1999	1248	324209116585001	Blank	<0.002	<0.002	<0.001	<0.017	<0.002	<0.004
Loveland Reservoir near dam site 1	2-Mar-1999	1153	324703116473101	Spike	E0.042	0.106	0.105	0.104	0.115	0.112
QC/QA site for Sacramento project office CA	9-Sep-1998	1408	88888801	Blank	<0.002	<0.002	<0.001	<0.017	<0.002	<0.004
QC/QA site for Sacramento project office CA	7-Sep-1998	1118	88888801	Blank	<0.002	<0.002	<0.001	<0.017	<0.002	<0.004

					Ethoprophos	Fonofos	Lindane	Linuron	Malathion	Azinphos-methyl
PCODE					82672	4095	39341	82666	39532	82686
Site name	Date	Time	Site ID	Sample type	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SWR near pump tower	12-Jul-1999	1131	324130117002501	Replicate	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR center of minimum pool	6-Jan-1999	1031	324131117000101	Replicate	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.107	0.119	0.119	0.117	0.147	E0.174
SWR east end reservoir fill boundary	1-Mar-1999	1248	324209116585001	Blank	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
Loveland Reservoir near dam site 1	2-Mar-1999	1153	324703116473101	Spike	0.111	0.101	0.091	0.122	0.109	E0.139
QC/QA site for Sacramento project office CA	9-Sep-1998	1408	88888801	Blank	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.003	<0.003	<0.004	<0.002	<0.005	<0.001

Table 13. Quality assurance analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

					Parathion-methyl	Metolachor	Metribuzin	Molinate	Napropamide	p,p'-DDE
PCODE					82667	39415	82630	82671	82684	34653
Site name	Date	Time	Site ID	Sample type	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SWR near pump tower	12-Jul-1999	1131	324130117002501	Replicate	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006
SWR center of minimum pool	6-Jan-1999	1031	324131117000101	Replicate	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.172	0.118	0.126	0.122	0.117	0.080
SWR east end reservoir fill boundary	1-Mar-1999	1248	324209116585001	Blank	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006
Loveland Reservoir near dam site 1	2-Mar-1999	1153	324703116473101	Spike	0.112	0.117	0.082	0.120	0.118	0.057
QC/QA site for Sacramento project office CA	9-Sep-1998	1408	88888801	Blank	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.006	<0.002	<0.004	<0.004	<0.003	<0.006

					Parathion	Pebulate	Pendimethalin	cis-Permethrin	Phorate	Prometon
PCODE					39542	82669	82683	82687	82664	4037
Site name	Date	Time	Site ID	Sample type	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SWR near pump tower	12-Jul-1999	1131	324130117002501	Replicate	<0.004	<0.004	<0.004	<0.005	<0.002	<0.018
SWR center of minimum pool	6-Jan-1999	1031	324131117000101	Replicate	<0.004	<0.004	<0.004	<0.005	<0.002	E0.007
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.181	0.122	0.115	0.073	0.089	0.135
SWR east end reservoir fill boundary	1-Mar-1999	1248	324209116585001	Blank	<0.004	<0.004	<0.004	<0.005	<0.002	<0.018
Loveland Reservoir near dam site 1	2-Mar-1999	1153	324703116473101	Spike	0.130	0.110	0.102	0.046	0.102	0.117
QC/QA site for Sacramento project office CA	9-Sep-1998	1408	88888801	Blank	0.004	<0.004	<0.004	<0.005	<0.002	<0.018
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	0.004	<0.004	<0.004	<0.005	<0.002	<0.018

Table 13. Quality assurance analytical results for pesticide concentrations in water samples, Sweetwater and Loveland Reservoirs, San Diego County, California—*Continued*

					Propyzamide	Propachlor	Propanil	Propargite	Simazine	Tebuthiuron	Terbacil
PCODE					82676	4024	82679	82685	4035	82670	82665
Site name	Date	Time	Site ID	Sample type	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SWR near pump tower	12-Jul-1999	1131	324130117002501	Replicate	<0.003	<0.007	<0.004	<0.013	0.015	<0.01	<0.007
SWR center of minimum pool	6-Jan-1999	1031	324131117000101	Replicate	<0.003	<0.007	<0.004	<0.013	0.018	<0.01	<0.007
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.129	0.131	0.127	0.117	0.140	0.12	E0.122
SWR east end reservoir fill boundary	1-Mar-1999	1248	324209116585001	Blank	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007
Loveland Reservoir near dam site 1	2-Mar-1999	1153	324703116473101	Spike	0.100	0.124	0.124	0.108	0.106	0.14	E0.095
QC/QA site for Sacramento project office CA	9-Sep-1998	1408	88888801	Blank	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007

					Terbufos	Terbutylazine	Thiobencarb	Triallate	Trifluralin	Diazinon- <i>d</i> ₁₀ (surrogate)	alpha-HCH- <i>d</i> ₆ (surrogate)
PCODE					82675	91064	82681	82678	82661	91063	91065
Site name	Date	Time	Site ID	Sample type	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(%)	(%)
SWR near pump tower	12-Jul-1999	1131	324130117002501	Replicate	<0.013	E0.0551	<0.002	<0.001	<0.002	96	92
SWR center of minimum pool	6-Jan-1999	1031	324131117000101	Replicate	<0.013	111	<0.002	<0.001	<0.002	107	98
SWR east end reservoir fill boundary	10-Sep-1998	1313	324209116585001	Spike	0.098	101	0.121	0.113	0.111	97	90
SWR east end reservoir fill boundary	1-Mar-1999	1248	324209116585001	Blank	<0.013	108	<0.002	<0.001	<0.002	104	105
Loveland Reservoir near dam site 1	2-Mar-1999	1153	324703116473101	Spike	0.092	106	0.105	0.103	0.089	96	89
QC/QA site for Sacramento project office CA	9-Sep-1998	1408	88888801	Blank	<0.013	98.8	<0.002	<0.001	<0.002	93	89
QC/QA site for Sacramento project office CA	7-Sep-1999	1118	88888801	Blank	<0.013	-999999	<0.002	<0.001	<0.002	E230	E218

Table 14. Quality assurance analytical results for polynuclear aromatic hydrocarbon compound concentrations in core segments and urban runoff diversion system pond surficial bed sediment samples, Sweetwater Reservoir, San Diego County, California

[An “E” indicates that the value has been estimated because of interference or is below method reporting limits. The number given below a compound is its parameter code, or PCODE (if a code has been assigned). Calif., California; CRM, Certified Reference material; Dup, duplicate; NA, not analyzed; PAH, polynuclear aromatic hydrocarbon; QA, quality assurance; Surf. Bed Sed., surficial bed sediment; SWR, Sweetwater Reservoir; URDS, urban runoff diversion system. %, percentage recovery; <, compound was not detected at a concentration above the reporting level; µg/kg, microgram per kilogram]

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE		Phenol	<i>p</i> -cresol	C8-alkyl-phenol	Naphthalene	C1-128 isomers	2-ethyl-naphthalene	2,6-dimethyl-naphthalene	1,6-dimethyl-naphthalene
		Site ID	Type	49413 (µg/kg)	49451 (µg/kg)	(µg/kg)	49402 (µg/kg)	(µg/kg)	49948 (µg/kg)	49406 (µg/kg)	49404 (µg/kg)
Core method	24-Sep-1998	983649001	Spike	52.0	E10.2	NA	78.8	NA	68.5	79.7	87.5
Core method	24-Sep-1998	983648001	Blank	E1.3	E0.9	NA	<5	<5	<5	<5	<5
Core matrix	24-Sep-1998	98365crm352	Spike	NA	NA	NA	44.9	NA	NA	NA	NA
Core method	24-Sep-1998	983299000	Spike	68.1	45.4	NA	80.9	NA	81.3	80.2	75.2
Core method	24-Sep-1998	983298000	Blank	E1.0	<5	NA	<5	<5	<5	<5	<5
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	NA	NA	57.3	NA	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	E0.8	<5	NA	E0.4	NA	NA	<5	<5
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	70.9	22.3	NA	105	NA	98.4	95.5	97.8
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	NA	NA	NA	49.7	NA	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	52.0	E10.2	NA	78.8	NA	68.5	79.7	87.5
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	E1.3	E0.9	NA	<5	<5	<5	<5	<5
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	141	E523	NA	27.5	160	11.1	46.0	44.2
SWR near recreation area	04-Nov-1998	324126116595701	Dup	55.6	E964	NA	E9.7	35.8	<10	E284	26.9

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE		C2-128 isomers	Acenaphthylene	1,2-dimethyl-naphthalene	Acenaphthene	C3-128 isomers	2,3,6-trimethyl-naphthalene	9H-Fluorene	C4-128 isomers
		Site ID	Type	(µg/kg)	(µg/kg)	49403 (µg/kg)	49429 (µg/kg)	(µg/kg)	(µg/kg)	49399 (µg/kg)	(µg/kg)
Core method	24-Sep-1998	983649001	Spike	NA	65.1	83.8	71.1	NA	70.4	68.2	NA
Core method	24-Sep-1998	983648001	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core matrix	24-Sep-1998	98365crm352	Spike	NA	NA	NA	51.8	NA	NA	NA	NA
Core method	24-Sep-1998	983299000	Spike	NA	78.8	75.3	79.8	NA	78.0	74.8	NA
Core method	24-Sep-1998	983298000	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	NA	NA	61.9	NA	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	NA	92.1	95.1	95.8	NA	107	114	NA
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	NA	NA	NA	59.6	NA	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	NA	65.1	83.8	71.1	NA	70.4	68.2	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	<5	<5	<5	<5	<5	<5	<5	<5
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	E262	26.2	26.4	<10	157	20.6	<15.0	85.0
SWR near recreation area	04-Nov-1998	324126116595701	Dup	311	E4.0	<10	<10	54.3	E3.5	18.6	52.3

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE		1-methyl-9H-Fluorene	C1-166 isomers	dibenzo-thiophene	Phenanthrene	Anthracene	Acridine	Phenanthridine	9H-carbazol
		Site ID	Type	49398 (µg/kg)	(µg/kg)	(µg/kg)	49409 (µg/kg)	49434 (µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Core method	24-Sep-1998	983649001	Spike	73.8	NA	NA	76.8	71.9	NA	NA	NA
Core method	24-Sep-1998	983648001	Blank	<5	NA	NA	<5	<5	NA	NA	NA
Core matrix	24-Sep-1998	98365crm352	Spike	NA	NA	NA	NA	49.2	NA	NA	NA
Core method	24-Sep-1998	983299000	Spike	75.8	NA	NA	84.4	74.8	NA	NA	NA
Core method	24-Sep-1998	983298000	Blank	<5	NA	NA	<5	<5	NA	NA	NA
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	NA	NA	NA	48.4	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	E0.8	NA	NA	<5	<5	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	121	NA	NA	108	95.9	NA	NA	NA
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	NA	NA	NA	NA	50.8	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	73.8	NA	NA	76.8	71.9	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	<5	NA	NA	<5	<5	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	<20.0	NA	NA	226	42.8	NA	NA	NA
SWR near recreation area	04-Nov-1998	324126116595701	Dup	E9.9	NA	NA	20.9	E4.2	NA	NA	NA

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE Site ID	Type	C5-128 isomers	C2-166 isomers	2-Methyl-Anthracene	4,5-methylene- phenanthrene	C1-178 isomers	1-Methyl-Phenanthrene	C3-166 isomers	C2-178 isomers
				(µg/kg)	(µg/kg)	49435 (µg/kg)	49411 (µg/kg)	(µg/kg)	49410 (µg/kg)	(µg/kg)	(µg/kg)
Core method	24-Sep-1998	983649001	Spike	NA	NA	63.6	77.8	NA	83.0	NA	NA
Core method	24-Sep-1998	983648001	Blank	<5	NA	<5	<5	<5	<5	NA	<5
Core matrix	24-Sep-1998	98365crm352	Spike	NA	NA	NA	NA	NA	NA	NA	NA
Core method	24-Sep-1998	983299000	Spike	NA	NA	71.4	83.1	NA	86.6	NA	NA
Core method	24-Sep-1998	983298000	Blank	<5	NA	<5	<5	<5	<5	NA	<5
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	NA	NA	NA	NA	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	<5	NA	<5	<5	<5	<5	NA	<5
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	NA	NA	91.9	103	NA	103	NA	NA
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	NA	NA	NA	NA	NA	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	NA	NA	63.6	77.8	NA	83.0	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	<5	NA	<5	<5	<5	<5	NA	<5
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	66.7	NA	16.2	42.0	322	56.3	NA	595
SWR near recreation area	04-Nov-1998	324126116595701	Dup	<10	NA	<10	E6.7	E6.0	E4.4	NA	E5.0

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE Site ID	Type	Fluoranthene	Pyrene	C3-178 isomers	C4-178 isomers	1-Methyl-Pyrene	C1-202 isomers	C2-202 isomers	C5-178 isomers
				49466 (µg/kg)	49387 (µg/kg)	(µg/kg)	(µg/kg)	49388 (µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Core method	24-Sep-1998	983649001	Spike	75.7	77.3	NA	NA	NA	NA	NA	NA
Core method	24-Sep-1998	983648001	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core matrix	24-Sep-1998	98365crm352	Spike	NA	112	NA	NA	NA	NA	NA	NA
Core method	24-Sep-1998	983299000	Spike	96.0	85.0	NA	NA	NA	NA	NA	NA
Core method	24-Sep-1998	983298000	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	57.7	NA	NA	NA	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	119	118	NA	NA	NA	NA	NA	NA
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	NA	E343	NA	NA	NA	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	75.7	77.3	NA	NA	NA	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	<5	<5	<5	<5	<5	<5	<5	<5
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	255	254	435	202	36.0	200	436	<800
SWR near recreation area	04-Nov-1998	324126116595701	Dup	20.2	18.8	<10	<10	E2.8	12.1	<10	<10

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE		Benz (a) Anthracene	Chrysene	C3-202 isomers	C1-228 isomers	C4-202 isomers	C5-202 isomers	C2-228 isomers	Benzo (b) fluoranthene
		Site ID	Type	49436 (µg/kg)	49450 (µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	49458 (µg/kg)
Core method	24-Sep-1998	983649001	Spike	123	133	NA	NA	NA	NA	NA	123
Core method	24-Sep-1998	983648001	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core matrix	24-Sep-1998	98365crm352	Spike	NA	98.6	NA	NA	NA	NA	NA	107
Core method	24-Sep-1998	983299000	Spike	85.6	78.4	NA	NA	NA	NA	NA	82.8
Core method	24-Sep-1998	983298000	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	63.1	NA	NA	NA	NA	NA	73.2
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	112	119	NA	NA	NA	NA	NA	134
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	NA	71.3	NA	NA	NA	NA	NA	84.3
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	122.9	133.1	NA	NA	NA	NA	NA	122.6
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	<5	<5	<5	<5	<5	<5	<5	<5
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	128	229	158	405	171	101	645	129
SWR near recreation area	04-Nov-1998	324126116595701	Dup	E7.0	13.4	<10	<10	<10	<10	<10	16.6

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE		Benzo (k) fluoranthene	Benzo (e) pyrene	Benzo (a) pyrene	Perylene	C1-252 isomers	C3-228 isomers	C2-252 isomers	C4-228 isomers
		Site ID	Type	49397 (µg/kg)	(µg/kg)	49389 (µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Core method	24-Sep-1998	983649001	Spike	115	89.5	98.0	72.3	NA	NA	NA	NA
Core method	24-Sep-1998	983648001	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core matrix	24-Sep-1998	98365crm352	Spike	NA	NA	89.2	NA	NA	NA	NA	NA
Core method	24-Sep-1998	983299000	Spike	81.8	65.9	71.8	57.9	NA	NA	NA	NA
Core method	24-Sep-1998	983298000	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	NA	61.2	NA	NA	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	139	112.1	115	99.6	NA	NA	NA	NA
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	NA	NA	70.2	NA	NA	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	115.2	89.5	98.0	72.3	NA	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	<5	<5	<5	<5	<5	<5	<5	<5
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	79.5	174	75.8	117	467	<300	278	<80
SWR near recreation area	04-Nov-1998	324126116595701	Dup	E8.4	15.2	E8.7	E497	<10	<10	<10	<10

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE		Benzo (g,h,i) perylene	Indeno (1,2,3-c,d) pyrene	Dibenzo (a,h) anthracene	C3-252 isomers	C4-252 isomers	C5-228 isomers	C5-252 isomers	Coronene
		Site ID	Type	49408 (µg/kg)	49390 (µg/kg)	49461 (µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Core method	24-Sep-1998	983649001	Spike	101	112	101	NA	NA	NA	NA	E63.3
Core method	24-Sep-1998	983648001	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core matrix	24-Sep-1998	98365crm352	Spike	NA	NA	NA	NA	NA	NA	NA	NA
Core method	24-Sep-1998	983299000	Spike	56.3	78.3	78.3	NA	NA	NA	NA	E17.7
Core method	24-Sep-1998	983298000	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	NA	NA	NA	NA	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	<5	<5	<5	<5	<5	<5	<5	<5
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	103	125	120	NA	NA	NA	NA	E41.3
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	NA	NA	NA	NA	NA	NA	NA	NA
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	101	112	101	NA	NA	NA	NA	E63.3
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	<5	<5	<5	<5	<5	<5	<5	<5
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	241	63.5	25.4	148	<10	<10	<10	E65.5
SWR near recreation area	04-Nov-1998	324126116595701	Dup	E7.9	E7.8	<10	<10	<10	<10	<10	<10

Table 14. QA analytical results for PAHs in core segments, surficial bed sediment, and URDS samples from the SWR, San Diego County, Calif.—*Continued*

Site name	Date	PCODE		Nitrobenzene-d ₅ (surrogate)	2-Fluorobiphenyl (surrogate)	Terphenyl-d ₁₄ (surrogate)
		Site ID	Type	(%)	(%)	(%)
Core method	24-Sep-1998	983649001	Spike	NA	NA	NA
Core method	24-Sep-1998	983648001	Blank	NA	NA	NA
Core matrix	24-Sep-1998	98365crm352	Spike	NA	NA	NA
Core method	24-Sep-1998	983299000	Spike	NA	NA	NA
Core method	24-Sep-1998	983298000	Blank	NA	NA	NA
Core - CRM 352 matrix	24-Sep-1998	98329crm352	Spike	NA	NA	NA
Surf. Bed Sed. method	04-Nov-1998	990128002	Blank	43	60	109
Surf. Bed Sed. method	04-Nov-1998	990129002	Spike	65	77	135
Surf. Bed Sed. CRM 352 matrix	04-Nov-1998	99011crm352	Spike	56	78	133
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Spike	53	54	94
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Blank	87	79	89
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	NA	86	93
SWR near recreation area	04-Nov-1998	324126116595701	Dup	131	81	97

Table 15. Quality assurance analytical results for organochlorine concentrations in select core segments and in reservoir and urban runoff diversion system (URDS) ponds surficial bed sediments from the Sweetwater Reservoir, San Diego County, California

[Dup, duplicate; NA, not analyzed; SWR, Sweetwater Reservoir.%, percentage recovery; <, compound was not detected at a concentration above the reporting level; µg/kg, microgram per kilogram]

Site name	Date	Site identification number	Type	Lindane (µg/kg)	Hepta-chlor (µg/kg)	Aldrin (µg/kg)	Heptachlor epoxide (µg/kg)	Chlor-dane (µg/kg)	Endo-sulfan I (µg/kg)	Dieldrin (µg/kg)	<i>p,p'</i> -DDE (µg/kg)	Endrin (µg/kg)	<i>p,p'</i> -DDD (µg/kg)
SWR near recreation area	09-Sep-1998	324126116595702	Dup	<1.25	<1.25	<1.25	<1.25	<12.50	<1.25	<1.25	4.46	<1.25	<1.25
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	<1.1	<1.10	<1.00	<1.30	109.0	<2.90	<1.00	11.00	<2.10	<5.00

Site name	Date	Site identification number	Type	<i>p,p'</i> -DDT (µg/kg)	<i>p,p'</i> -Methoxy-chlor (µg/kg)	Mirex (µg/kg)	Toxa-phene (µg/kg)	Arochlor 1242 (µg/kg)	Arochlor 1254 (µg/kg)	Arochlor 1260 (µg/kg)	Total PCB (µg/kg)	Isodrin (surrogate) (%)	Nonachlor-obiphenyl (surrogate) (%)	Alpha HCH- <i>d</i> ₆ (surrogate) (%)
SWR near recreation area	09-Sep-1998	324126116595702	Dup	<1.25	<5.00	<1.25	<125	<12.50	<12.50	<12.50	NA	88	79	66
URDS Vista del Lago_01	05-Nov-1998	324142117001301	Dup	<10.00	<11.00	<1.00	<100	<10.00	6.70	NA	NA	NA	27	60

